Naval Oceanographic Office

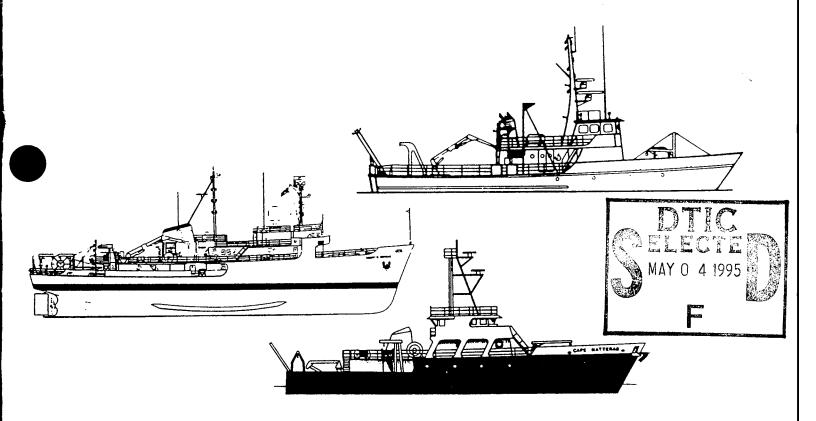
Stennis Space Center MS 39522-5001 Reference Publication RP 53 January 1995



RP 53

NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS

NAVY•UNOLS•NOAA•UNIVERSITY•USCG•FEDERAL



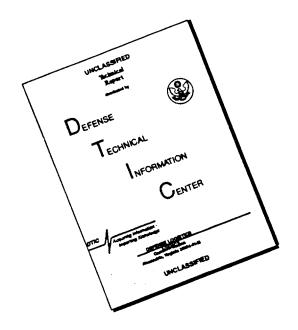
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Prepared under the authority of Commander
Naval Meteorology and
Oceanography Command

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FOREWORD

The Naval Oceanographic Office (NAVOCEANO) is pleased to publish the second edition of the National Oceanographic Fleet Platform Characteristics. This document supersedes the RP 34 series that provided ship schedule information in addition to platform characteristics. Distribution is made to those individuals and activities involved in planning, scheduling, and coordinating U.S. oceanographic ship operations.

As ship operating expenses increase, efficiency of operations becomes a key ingredient for an effective national oceanographic program. To this end, efforts must be made to maximize the use of existing oceanographic platforms by "piggybacking" of projects, exchange of oceanographic data, and coordination of schedules. This publication serves as one means of assisting sponsoring activities and user organizations in effective management of national oceanographic assets.

In light of this effort, and recognizing that many ocean-capable vessels specifically configured for oceanographic research and hydrographic surveying exist in the private sector (representing a definite national asset), this edition includes platform characteristics of vessels operated by commercial concerns. An invitation is extended to other commercial concerns which operate specifically configured, deep-ocean-capable, oceanographic or hydrographic vessels to include their vessels in future editions.

DIETER K. RUDOLPH Captain, U.S. Navy

a K. Kurdolyk

Commanding Officer

This document supersedes RP 34 series publication. The changes that incurred include:

Ship schedules are available electronically and are no longer a part of this publication.

The 3-hole punch design is intended for addressees to retain this publication for the purpose of incorporating updates to the platform characteristics that will be distributed as required.

Please provid OCEANOGR will be used t	de the following information to continue receiving the NATIONA RAPHIC FLEET PLATFORM CHARACTERISTICS publication. to establish a mailing list for future editions and updates.	L This information
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City	State	Zip Code
Num	ber of copies requested:	

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RP 53

Naval Oceanographic Office Operations Office Building 1002 Stennis Space Center Mississippi 39522-5001

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REPORT DOCUMENTATION PAGE

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OMB No. 0704-0188

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POLAR DUKE
DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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INTRODUCTION

This publication presents the 1995 platform characteristics for the national oceanographic fleet. Information is provided for over 90 ships which operate under various academic, governmental, or commercial organizations. Included with each ship is information on ship characteristics and engineering/deck equipment, and a point of contact.

The 1995 and future editions do not contain ship schedule information. This information is available from an electronic bulletin board (OCEANIC) maintained at the University of Delaware and may be accessed by computer. This method makes available current schedule information that is more up to date than that previously published in the RP 34 series which was superseded by this publication. The point of contact for the bulletin board is:

Katherine Bouton College of Marine Studies University of Delaware Lewes, Delaware 19958 (302) 645-4278 FAX (302) 645-4007

Networks are available as follows:

Telemail: K. Bouton/OMNET

INTERNET: Bouton @ DELOCN.UDEC.EDU

Span: DELOCN::Bouton

Further information or assistance in accessing or inputting schedule information may be obtained from Katherine Bouton. All ship operators are highly encouraged to utilize this service.

For information on changes or modifications of vessel capabilities and related questions, please address correspondence to Commanding Officer, Naval Oceanographic Office (Attn: Operations Office), Stennis Space Center, MS 39522-5001, or call commercial (601) 688-4631/4370 or Defense Switch Network (DSN) 485-4631/4370. ADDITIONS OR CHANGES SHOULD BE FORWARDED TO THE NAVAL OCEANOGRAPHIC OFFICE BY 1 OCTOBER 1995 TO BE INCORPORATED IN NEXT YEAR'S EDITION.

PROCEDURES FOR REPORTING SURFACE AND SUBSURFACE OBSTACLES

The Defense Mapping Agency Hydrographic/Topographic Center (DMAHTC) is the point of contact for ship operations that use sonic emitters, towed devices, or explosive charges. Such operations present special hazards to submarine operation and navigation. DMAHTC has agreed to disseminate information

concerning underwater hazards as part of the Notice to Mariners system. The intent of the reporting procedures is to eliminate mutual interference problems and equipment damage between ongoing and planned operations by advising units at sea of surface and subsurface obstacles. The revised Notice to Mariners system relies on the cooperation of the maritime community (military, governmental, and commercial). Timely notification to DMAHTC is needed for all operations that install moored underwater instrumentation, tow or drag devices of any kind, or use sonic emitters or explosives. DMAHTC will disseminate information as follows:

- a. For moored instrumentation in depths of 300 meters or less (the maximum depth where damage could result from normal fishing operations), information will be broadcast as a radio navigational warning and reprinted in Section III of the Notice to Mariners.
- b. For moored instrumentation in depths greater than 300 meters, the information will not be broadcast. Documentation will be forwarded to appropriate Naval commands for their use.
- c. For tow or drag devices of any kind, sonic emitters or explosives, the information will be broadcast as a radio navigational warning.

Commercial companies are not required to provide operational information to DMAHTC but are encouraged to do so. The DMAHTC point of contact for information and notification is Defense Mapping Agency Hydrographic/Topographic Center, (Attn: MCC Mail Stop D44), 4600 Sangamore Road, Bethesda, Maryland 20816-5003, commercial (301) 227-3147 or TELEX 898334, DMAHTC, Washington, DC. Military users may use Defense Switch Network (DSN) 287-3147 or AUTODIN message to DMAHTCNAVWARN WASHINGTON DC. Broadcast Watch operates 24 hours per day, seven days a week.

ALPHA HELIX

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:

MR. THOMAS D. SMITH

ASSISTANT DIRECTOR, COASTAL & MARINE OPERATIONS

POC:
POC OFFICE:
ASSISTANT DIRECTOR, COASTAL
POC ORGANIZATION:
INSTITUTE OF MARINE SCIENCE UNIVERSITY OF ALASKA BOX 730

POC ADDRESS:

POC CITY/STATE:

SEWARD AK 99664

COMMERCIAL AREA CODE: 907 224-5261

ADMINISTRATIVE DETAILS

DESIGNATOR:

RV

CLASS:

COASTAL

CALL SIGN (INTERNATIONAL): WSD7078

FLEET:

UNOLS

SHIP TYPE:

OCEAN RESEARCH-GENERAL

SHIP OWNER:

NATIONAL SCIENCE FOUNDATION CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING

USA

FLAG REGISTRY:

SEWARD AK

HOME PORT:

TECHNICAL SPONSOR:

OPERATIONS CONTROL:

CONTRACTUAL INFORMATION:

UNIVERSITY OF ALASKA

NONE

NONE

9.3/89 THOUSAND \$'S IN YR

OPERATING COST/DAY: SCIENTIFIC COMPLEMENT:

15 3

NUMBER OFFICERS:

5 6 BEAUFORT SCALE

NUMBER IN CREW: MAX SEA STATE:

ENDURANCE:

30 DAY(S)

FUEL-H2O-REFRIGERATED STORES

LIMITING FACTOR:

J M MARTINAC COMPANY

BUILDER: WHERE BUILT:

TACOMA WA USA

INITIAL COST:

1.3/65 MILLION \$'S IN YEAR

DUE DATE:

100 '64

KEEL DATE: LAUNCH DATE:

165 '66

DELIVERY DATE: COMMISSION DATE: CONVERSION DATE:

'66 '82

LAST OVERHAUL: MAINTENANCE CYCLE:

186 2.0 YEARS

END OF LIFE:

1991

UPDATE OF INFORMATION:

27 APR 90

SHIP DIMENSIONS

LENGTH: 132.8 FEET

MAX BEAM: 31.0 FEET

HEIGHT: 58.0 FEET

GROSS TONNAGE: 294

DISPLACEMENT: 600 TONS

DRAUGHT: 13.8 FEET

CRUISE SPEED: 10.0 KNOTS

RANGE: 10000 NAUTICAL MILES

MAX SPEED: 11.0 KNOTS

MIN SPEED: 1.0 KNOTS

ENGINEERING/DECK EQUIPMENT

AUXILIARY PROPULSION:

NUMBER OF SHAFTS:

DIESEL GEARED
BOW THRUSTER

NUMBER OF SHAFTS: 1

BOW THRUSTER:
ACTIVE RUDDER: ELLIOTT WHITE GILL 360

DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: N

NONE FEET

DEEP ANCHOR:

BERTHING VAN DIMENSIONS:

NONE INSTRUMENT VAN DIMENSIONS: NONE WET-LAB: DRY-LAB: DRY-LAB:
AMMUNITION STORAGE: Y N

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 13 FOOT RUBBER INFLATABLE

2. 17 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY: 3800 POUNDS NUMBER OF FRAMES: 1

CRANES OR BOOMS

MAX HOIST CAPACITY: 2800 POUNDS

NUMBER OF CRANES:

WINCHES:

O1. MAJOR TYPE/USE: HYDROGRAPHIC
SECONDARY TYPE/USE: UTILITY
SLIP-RINGS: 6
WIRE TYPE: CONDUCTOR CABLE
WIRE LENGTH: 6000 FEET
WIRE DIAMETER: 0.187 INCHES
O2. MAJOR TYPE/USE: DEEP SEA

SECONDARY TYPE/USE: HYDROGRAPHIC

SLIP-RINGS: 6
WIRE TYPE: CONDUCTOR CABLE
WIRE LENGTH: 26240 FEET
WIRE DIAMETER: 0.438 INCHES

ELECTRONIC EQUIPMENT

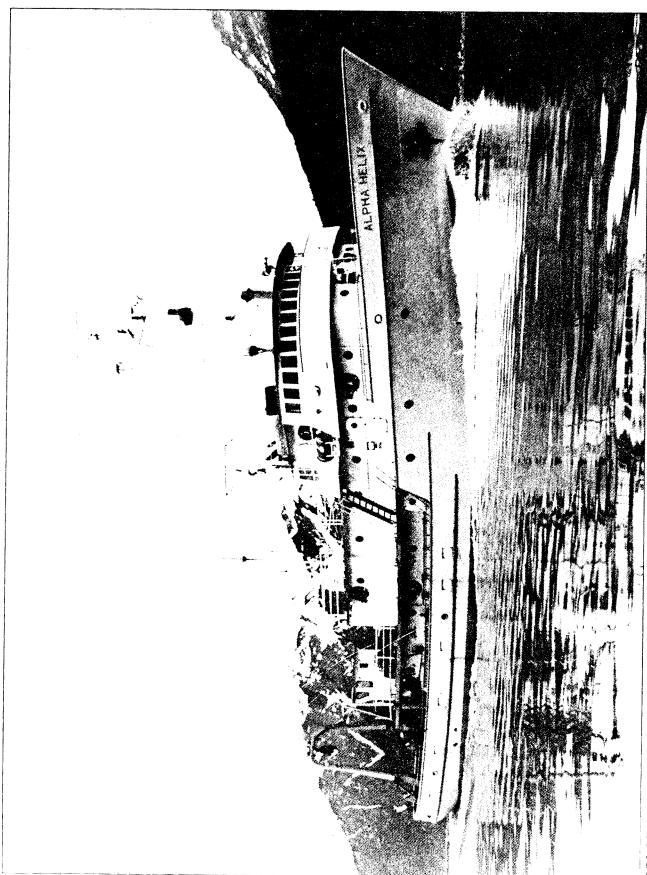
	HP 85, IBM-AT
COMPUTERS:	•
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	Y
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	ROSS 800B/ROSS 200
SOUNDING SYSTEM (DEEP):	EDO 248E

FUEL DETAILS

FUEL CAPACITY: 32000 GALLONS FUEL TYPE: DIESEL #2

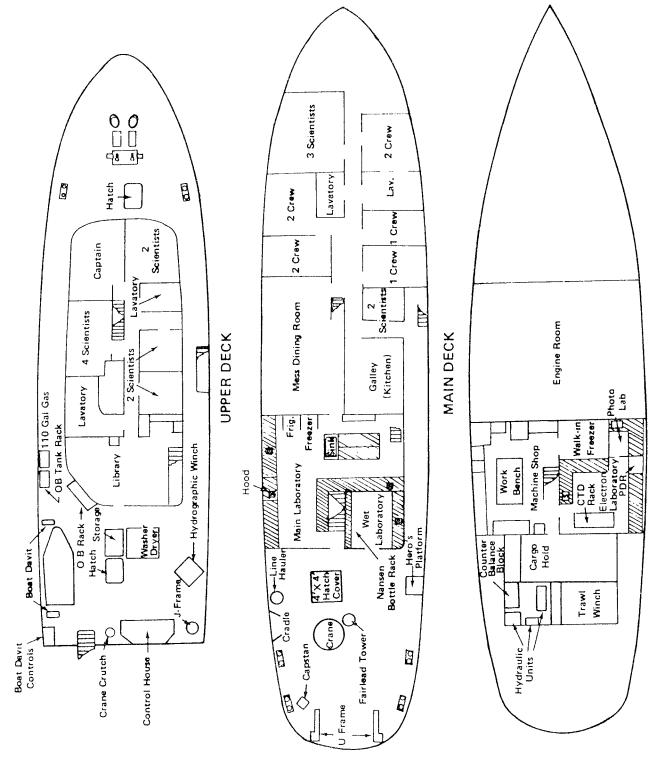
FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 750 GAL/24-HRS
DURING AVERAGE OPERATIONS: 520 GAL/24-HRS
DURING INPORT OPERATIONS: 100 GAL/24-HRS



R/V ALPHA HELIX

FUNCTIONAL ARRANGEMENT OF R/V ALPHA HELIX



LOWER DECK

CAPE HENLOPEN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: POC: POC OFFICE:

MR WADSWORTH OWEN

POC OFFICE: DIRECTOR OF FACILITIES & SERVICE
POC ORGANIZATION: UNIVERSITY OF DELAWARE
POC ADDRESS: 700 PILOTTOWN POAD

POC ADDRESS:

700 PILOTTOWN ROAD

POC CITY/STATE: LEWES DE 19958

COMMERCIAL AREA CODE: 302

PHONE:

645-4320

ADMINISTRATIVE DETAILS

DESIGNATOR:

CLASS:

CREW BOAT HULL

CALL SIGN (INTERNATIONAL): W2C8800

FLEET:

UNOLS

SHIP TYPE: SHIP OWNER: OCEAN RESEARCH-OFFSHORE UNIVERSITY OF DELAWARE

SHIP OWNER:
CERTIFICATION AUTHORITY:
UNIN

UNINSPECTED, ABS A-1

HOME PORT:

TECHNICAL SPONSOR:

OPERATIONS CONTROL:

CONTRACTUAL INFORMATION:

OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT:

NUMBER OFFICERS:

LEWES DE

UNIVERSITY OF DELAWARE

AVAILABLE FOR OUTSIDE USE. CALL POC.

5.0/87 THOUSAND \$'S IN YR

12

NUMBER IN CREW:

NUMBER OFFICERS:

5 BEAUFORT SCALE

MAX SEA STATE:

13 DAY(S)

ENDURANCE:

FUEL

LIMITING FACTOR:

SWIFTSHIPS

BUILDER: WHERE BUILT:

MORGAN CITY, LA USA

INITIAL COST:

1.2/75 MILLION \$'S IN YEAR

DUE DATE:

'00 174

KEEL DATE:

175

LAUNCH DATE: DELIVERY DATE:

'76 '76

COMMISSION DATE: CONVERSION DATE:

'00 '00

LAST OVERHAUL: MAINTENANCE CYCLE:

1.5 YEARS

END OF LIFE:

2001

UPDATE OF INFORMATION: 26 OCT 90

SHIP DIMENSIONS

120.0 FEET LENGTH: 23.3 FEET MAX BEAM: HEIGHT: 48.0 FEET

GROSS TONNAGE: 228
DISPLACEMENT: 165 TONS DRAUGHT: 9.3 FEET CRUISE SPEED: 12.5 KNOTS RANGE: 2368 NAUTICAL MILES

MAX SPEED: 18.0 KNOTS MIN SPEED: 0.5 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED

AUXILIARY PROPULSION: NO NUMBER OF SHAFTS: 2 BOW THRUSTER: NO ACTIVE RUDDER: N DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: Y

DEEP ANCHOR: 250 FEET

BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: 8X8X16

WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT: N METEOROLOGICAL OBSERVATIONS: Y

UTILITY BOATS:

1. 16 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 12000 POUNDS

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 22050 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: OCEANOGRAPHIC SECONDARY TYPE/USE: HYDROGRAPHIC

SLIP-RINGS:

WIRE TYPE: CONDUCTOR CABLE

WIRE LENGTH: 10500 FEET
WIRE DIAMETER: 0.219 INCHES SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LEN: 10500 FEET SECONDARY WIRE DIAM: 0.219 INCHES 02. MAJOR TYPE/USE: TRAWL SECONDARY TYPE/USE: CORING

N SLIP-RINGS:

WIRE TYPE: WIRE ROPE 10500 FEET WIRE LENGTH: WIRE DIAMETER: 0.437 INCHES SECONDARY WIRE TYPE: WIRE ROPE SECONDARY WIRE LEN: 8200 FEET

SECONDARY WIRE DIAM: 0.500 INCHES

03. MAJOR TYPE/USE: ANCHOR

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE ROPE WIRE TYPE: WIRE LENGTH: 1020 FEET WIRE DIAMETER: 0.750 INCHES

ELECTRONIC EQUIPMENT

4 IBM - AT COMPATIBLE COMPUTERS: Y FACSIMILE: N ELECTROMAGNETIC LOG: N INERTIAL NAVIGATION: RADAR (SURFACE SCAN): N LORAN A: LORAN C: OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: N Y SINGLE SIDE BAND: Y VHF COMMUNICATIONS: STABLE TABLE: N NARROW BEAM: SEISMIC PROFILING: SIDE SCAN: SOUNDING SYSTEM (SHALLOW): KONEL/BENMAR KONEL

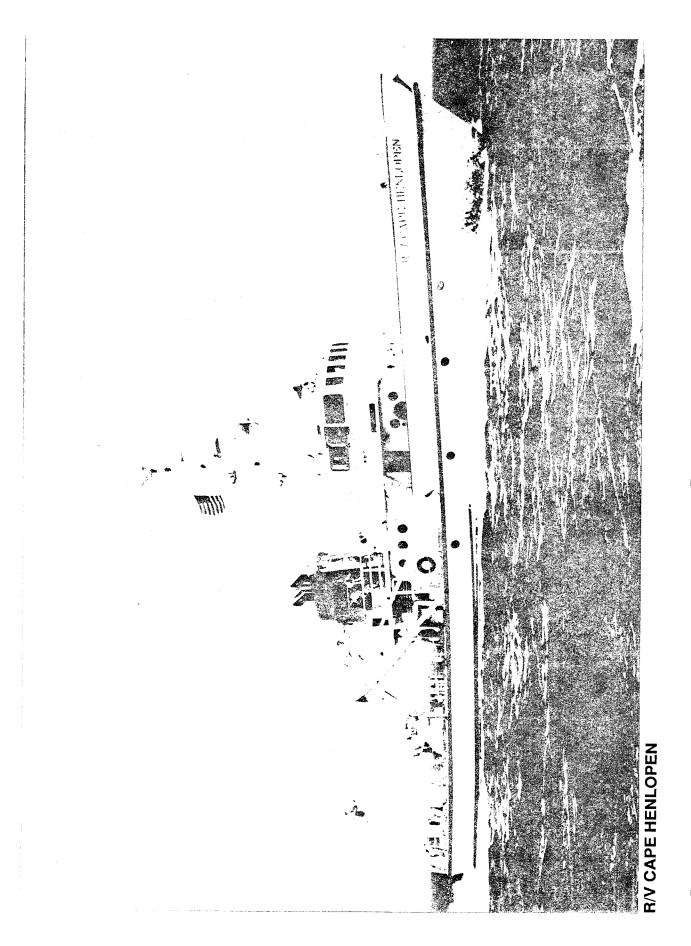
FUEL DETAILS

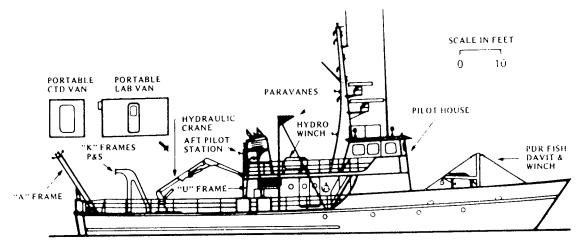
9750 GALLONS FUEL CAPACITY: DIESEL #2 FUEL TYPE:

FUEL CONSUMPTION RATES:

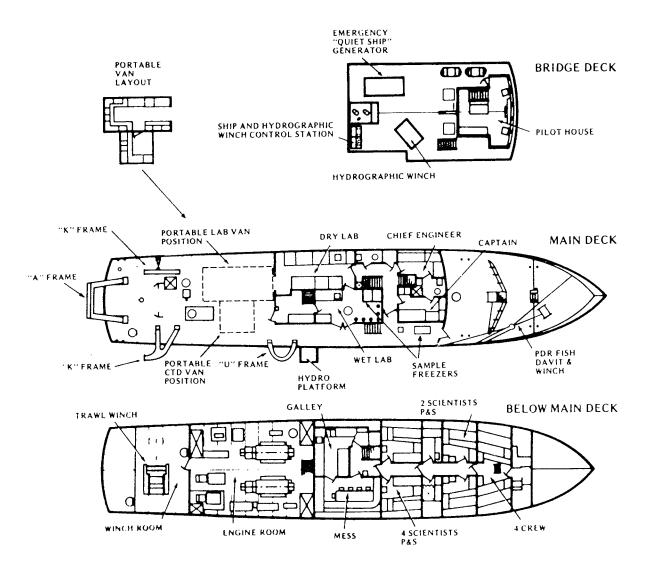
AT NORMAL CRUISING SPEED: 1200 GAL/24-HRS DURING AVERAGE OPERATIONS: 800 GAL/24-HRS 100 GAL/24-HRS DURING INPORT OPERATIONS:

****************** ********************





LENGTH: 120 FT.



R/V CAPE HENLOPEN

CAPE HATTERAS

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR QUENTIN M. LEWIS, JR. POC OFFICE: MARINE SUPERINTENDENT

POC ORGANIZATION: DUKE/UNC OCEANOGRAPHIC CONSORTIUM

DUKE UNIVERSITY MARINE LAB POC ADDRESS:

BEAUFORT, NC 28516 POC CITY/STATE:

COMMERCIAL AREA CODE: 919

728-2111, EXT 274

ADMINISTRATIVE DETAILS

DESIGNATOR:

COASTAL ZONE R/V CLASS:

CALL SIGN (INTERNATIONAL): WRZ8934 UNOLS FLEET:

OCEAN RESEARCH - COASTAL ZONE SHIP TYPE: NATIONAL SCIENCE FOUNDATION SHIP OWNER: AMERICAN BUREAU OF SHIPPING CERTIFICATION AUTHORITY:

FLAG REGISTRY: USA

BEAUFORT NC USA HOME PORT:

TECHNICAL SPONSOR:

OPERATIONS CONTROL:

CONTRACTUAL INFORMATION:

OPERATING COST/DAY:

DUKE UNIV./UNIV. OF N.C. CONSORTIUM

NSF CHARTER PARTY AGREEMENT. EXPIRES 1996.

6.570/89 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 12 5 NUMBER OFFICERS: NUMBER IN CREW:

6 BEAUFORT SCALE MAX SEA STATE:

ENDURANCE: 24 DAY(S) LIMITING FACTOR: FOOD STORES

ATLANTIC MARINE INC. BUILDER: FORT GEORGE ISLAND FL WHERE BUILT:

3.1/81 MILLION \$'S IN YEAR INITIAL COST:

'00 DUE DATE:

KEEL DATE: 15 JUN 80

LAUNCH DATE: '00

01 AUG 81 DELIVERY DATE:

'00 COMMISSION DATE: '00 CONVERSION DATE:

15 NOV 89 LAST OVERHAUL: 1.0 YEARS MAINTENANCE CYCLE:

2006 END OF LIFE:

22 OCT 90 UPDATE OF INFORMATION:

SHIP DIMENSIONS

MAX BEAM: 32.0 FEET
HEIGHT: - FEET
GROSS FOR

HEIGHT: - FEET

GROSS TONNAGE: 296

DISPLACEMENT: 539 TONS

DRAUGHT: 9.0 FEET

CRUISE SPEED: 10.5 KNOTS

RANGE: 7000 NAUTICAL MILES

MAX SPEED: 12.5 KNOTS

MIN SPEED: 0.1 KNOTS

ENGINEERING/DECK EOUIPMENT

MAIN PROPULSION: DIESEL GEARED

AUXILIARY PROPULSION: NUMBER OF SHAFTS: BOW THRUSTER: ACTIVE RUDDER: DYNAMIC POSITIONING: ANTI-ROLL: STABILIZER:

DEEP ANCHOR: 720 FEET DEEP ANCHOR: 720
BERTHING VAN DIMENSIONS: INSTRUMENT VAN DIMENSIONS: 5X6X9

WET-LAB: DRY-LAB: AMMUNITION STORAGE: HELO SUPPORT: METEOROLOGICAL OBSERVATIONS: -

UTILITY BOATS:

1. 17 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 15000 POUNDS

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 12000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: OCEANOGRAPHIC

SECONDARY TYPE/USE: SLIP-RINGS: N

WIRE TYPE: WIRE ROPE
WIRE LENGTH: 33000 FEET
WIRE DIAMETER: 0.500 INCHES
02. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE: OTHER

SLIP-RINGS:

WIRE TYPE: WIRE ROPE WIRE LENGTH: 30000 FEET WIRE DIAMETER: 0.187 INCHES 03. MAJOR TYPE/USE: HYDROGRAPHIC SECONDARY TYPE/USE: -

SLIP-RINGS: 1
WIRE TYPE: CONDUCTOR CABLE
WIRE LENGTH: 20000 FEET WIRE DIAMETER: 0.322 INCHES

ELECTRONIC EQUIPMENT

Y COMPUTERS: FACSIMILE: ELECTROMAGNETIC LOG: INERTIAL NAVIGATION: RADAR (SURFACE SCAN): Y LORAN A: Y LORAN C: OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: -SINGLE SIDE BAND: VHF COMMUNICATIONS: STABLE TABLE: Y NARROW BEAM: SEISMIC PROFILING: SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): - RAYTHEON/EDO

FUEL DETAILS

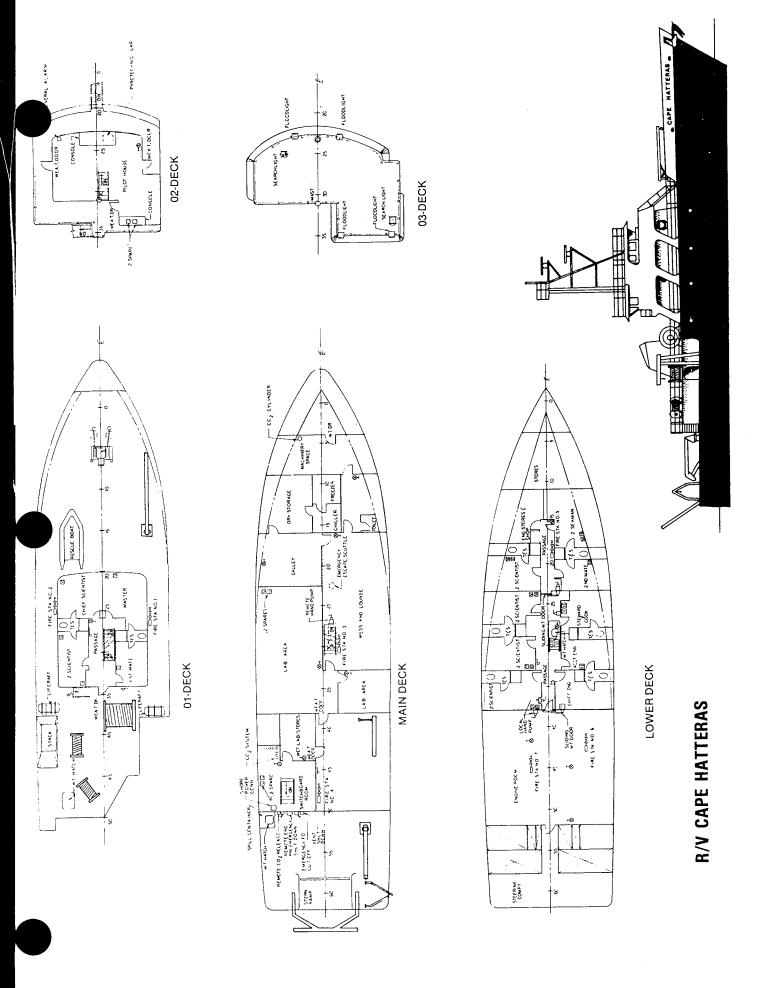
28695 GALLONS FUEL CAPACITY: DIESEL #2 FUEL TYPE:

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 800 GAL/24-HRS
DURING AVERAGE OPERATIONS: 740 GAL/24-HRS
DURING INPORT OPERATIONS: 200 GAL/24-HRS

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MOANA WAVE

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

CAPT JAMES W. COSTE JR POC: POC OFFICE: MARINE SUPERINTENDENT

POC ORGANIZATION: UNIVERSITY MARINE CENTER

#1 SAND ISLAND ROAD POC ADDRESS: POC CITY/STATE: HONOLULU HI 96819

COMMERCIAL AREA CODE: 808

847-2661 FAX: 848-5451

ADMINISTRATIVE DETAILS

AGOR 22 DESIGNATOR:

GYRE/AGOR 21 CLASS:

CALL SIGN (INTERNATIONAL): WUS9293 UNOLS FLEET:

SHIP TYPE: RESEARCH AND DEVELOPMENT

SHIP OWNER: USN

CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING

FLAG REGISTRY: USA

HONOLULU HI HOME PORT:

UNIVERSITY OF HAWAII TECHNICAL SPONSOR:

SCHOOL OF OCEAN AND EARTH SCIENCE AND OPERATIONS CONTROL:

TECHNOLOGY

CONTRACTUAL INFORMATION: ONR CODE 611 LEASE TO EXPIRE 1 JAN 94 OPERATING COST/DAY: 10.6/91 THOUSAND \$'S IN YR

19 SCIENTIFIC COMPLEMENT: 4 NUMBER OFFICERS:

NUMBER IN CREW: 9 5 BEAUFORT SCALE MAX SEA STATE:

50 DAY(S) ENDURANCE: REFRIGERATED STORES LIMITING FACTOR:

HALTER MARINE SERVICES INC BUILDER:

NEW ORLEANS LA USA WHERE BUILT:

3.9/73 MILLION \$'S IN YEAR INITIAL COST:

'00 DUE DATE: '00 KEEL DATE:

18 JUN 73 LAUNCH DATE:

'73 DELIVERY DATE: COMMISSION DATE: '00 CONVERSION DATE: '84 189 LAST OVERHAUL:

3.0 YEARS MAINTENANCE CYCLE:

END OF LIFE: 2003

UPDATE OF INFORMATION: 22 OCT 90

SHIP DIMENSIONS

MAX BEAM: 213.0 FEET HEIGHT: - FEET GROSS TOTAL

GROSS TONNAGE: 294

DISPLACEMENT: 1853 TONS
DRAUGHT: 15.0 FEET
CRUISE SPEED: 10.0 KNOTS
RANGE: 12000 NAUTICAL MILES
MAX SPEED: 11.5 KNOTS
MIN SPEED: 1.0 KNOTS

ENGINEERING/DECK EOUIPMENT

MAIN PROPULSION: DIESEL GEARED

AUXILIARY PROPULSION: NO NUMBER OF SHAFTS:

BOW THRUSTER: ELECTRIC 150 HP

ACTIVE RUDDER: DYNAMIC POSITIONING: N ANTI-ROLL: STABILIZER: N

BERTHING VAN DIMENSIONS: 8X8X24
INSTRUMENT VAN DIMENSIONS WET-LAB: DRY-LAB: Y

AMMUNITION STORAGE: HELO SUPPORT:

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 16 FOOT RUBBER AVON, HARD BOTTOM

2. 12 FOOT RUBBER AVON 3. 16 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY: 60000 POUNDS NUMBER OF FRAMES: 2

CRANES OR BOOMS

MAX HOIST CAPACITY: 11000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: HYDROGRAPHIC SECONDARY TYPE/USE:

SLIP-RINGS: Y

WIRE TYPE:

CONDUCTOR CABLE 33000 FEET WIRE LENGTH: WIRE DIAMETER: 0.322 INCHES

02. MAJOR TYPE/USE: TRAWL SECONDARY TYPE/USE: CORING

SLIP-RINGS:

WIRE TYPE: WIRE ROPE WIRE LENGTH: 45000 FEET WIRE DIAMETER: 0.562 INCHES

ELECTRONIC EQUIPMENT

NOVA 1220 COMPUTERS: Y FACSIMILE: ELECTROMAGNETIC LOG: Y N INERTIAL NAVIGATION: Y RADAR (SURFACE SCAN): LORAN A: LORAN C: OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: Y SINGLE SIDE BAND: Y VHF COMMUNICATIONS: Y STABLE TABLE: NARROW BEAM: SEISMIC PROFILING: SIDE SCAN: SOUNDING SYSTEM (SHALLOW): FURUNO SOUNDING SYSTEM (DEEP): EDO/RAY

EDO/RAYTHEON

FUEL DETAILS

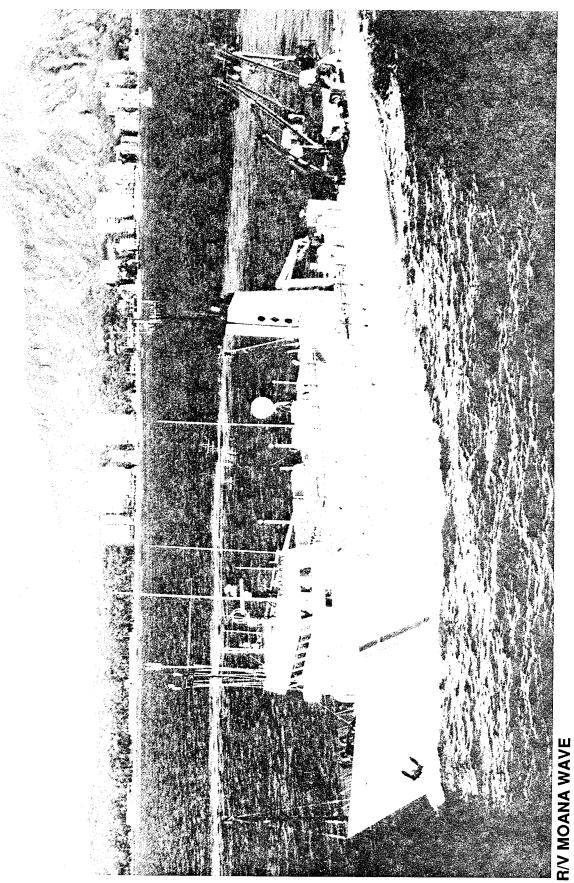
125000 GALLONS FUEL CAPACITY:

FUEL TYPE: DIESEL #2/JP-5

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 2200 GAL/24-HRS DURING AVERAGE OPERATIONS: 1800 GAL/24-HRS DURING INPORT OPERATIONS: 300 GAL/24-HRS

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KILA

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: CAPT JAMES W. COSTE JR
POC OFFICE: MARINE SUPERINTENDENT
POC ORGANIZATION: UNIVERSITY MARINE CENTER

POC ADDRESS: #1 SAND ISLAND ROAD POC CITY/STATE: HONOLULU, HAWAII 96819

COMMERCIAL AREA CODE: 808

847 2661

ADMINISTRATIVE DETAILS

DESIGNATOR:

RESEARCH CLASS: CALL SIGN (INTERNATIONAL): WRP2537

UNOLS FLEET:

FISHING TRAWLER SHIP TYPE:

HAWAII INSTITUTE OF GEOPHYSICS SHIP OWNER:

CERTIFICATION AUTHORITY: USA FLAG REGISTRY:

HONOLULU, HAWAII HOME PORT: TECHNICAL SPONSOR:

OPERATIONS CONTROL:

CONTRACTUAL INFORMATION:

NONE

HONGEGO, THANKIT

UNIVERSITY OF HAWAII

HAWAII INSTITUTE OF GEOPHYSICS

NONE

3.6/90 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 12 NUMBER OFFICERS: NUMBER IN CREW:

5 BEAUFORT SCALE MAX SEA STATE:

30 DAY(S) ENDURANCE:

FUEL/REFRIG. STORES LIMITING FACTOR:

BENDER WELDING & MACHINE CO., MOBILE BUILDER:

MOBILE ALABAMA WHERE BUILT:

INITIAL COST: '00 DUE DATE: KEEL DATE: '00 LAUNCH DATE: '77 '00 DELIVERY DATE: '00 COMMISSION DATE: '82 CONVERSION DATE: 189 LAST OVERHAUL:

3.0 YEARS MAINTENANCE CYCLE:

END OF LIFE: 1992

UPDATE OF INFORMATION: 27 APR 90

SHIP DIMENSIONS

LENGTH: 104.0 FEET MAX BEAM: HEIGHT: 24.0 FEET - FEET

192 GROSS TONNAGE:

DISPLACEMENT: - TONS DRAUGHT: 12.9 FEET
CRUISE SPEED: 8.0 KNOTS
RANGE: 5000 NAUTICAL MILES
MAX SPEED: 8.0 KNOTS
MIN SPEED: 2.0 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: 343 DIESELS

AUXILIARY PROPULSION: NONE NUMBER OF SHAFTS: BOW THRUSTER: NO ACTIVE RUDDER: N DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: N

DEEP ANCHOR: NONE FEET

BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: NONE WET-LAB: DRY-LAB: N AMMUNITION STORAGE: N HELO SUPPORT:

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 12 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 20000 POUNDS NUMBER OF FRAMES: 1

CRANES OR BOOMS

MAX HOIST CAPACITY: 7000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: UTILITY

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE TYPE: WIRE ROPE WIRE LENGTH: 3000 FEET 0.500 INCHES WIRE DIAMETER:

ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	RAYTHEON

FUEL DETAILS

FUEL	CAPACITY:		24500	GALLONS
FUEL	TYPE:			DIESEL
मामा.	CONSUMPTION	RATES:		

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 820 GAL/24-HRS
DURING AVERAGE OPERATIONS: 500 GAL/24-HRS
DURING INPORT OPERATIONS: 25 GAL/24-HRS

EDWIN LINK

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:

POC OFFICE:

POC ORGANIZATION:

POC ADDRESS:

MR. TIMOTHY ASKEW

DIRECTOR, MARINE OPERATIONS

HARBOR BRANCH OCEANOGRAPHIC INSTITUTION, INC.

5600 OLD DIXIE HIGHWAY

POC ADDRESS: 5000 OLD DIATE HIGHING POC CITY/STATE: FORT PIERCE FL 34946

COMMERCIAL AREA CODE: 407

465-2400 EXT 262 PHONE:

465-2446 FAX: 522886 TELEX:

ADMINISTRATIVE DETAILS

RV DESIGNATOR:

OFFSHORE SUPPLY VESSEL

CALL SIGN (INTERNATIONAL): WTL4798

UNOLS FLEET:

SHIP TYPE:

SUBMERSIBLE TENDER/OCEAN RESEARCH

HARBOR BRANCH OCEANOGRAPHIC INSTITUTION

CERTIFICATION AUTHORITY:

AMERICAN BUREAU OF SHIPPING

USA FLAG REGISTRY:

FT PIERCE FL

HOME PORT:

TECHNICAL SPONSOR:

OPERATIONS CONTROL:

CONTRACTUAL INFORMATION:

OPERATIONS COST (DAY:

TYPIERCE FL

HARBOR BRANCH OCEANOGRAPHIC INSTITUTION

HARBOR BRANCH OCEANOGRAPHIC INSTITUTION

NONE

THOUSAND S'S IN YR

7.8/90 THOUSAND \$'S IN YR

OPERATING COST/DAY: 7.8 SCIENTIFIC COMPLEMENT: 20 NUMBER OFFICERS: NUMBER IN CREW:

6 BEAUFORT SCALE MAX SEA STATE:

30 DAY(S) ENDURANCE: FUEL/STORES

LIMITING FACTOR: HOUMA FABRICATORS BUILDER:

HOUMA, LA USA WHERE BUILT:

N/A MILLION \$'S IN YEAR INITIAL COST:

'00 DUE DATE: '81 KEEL DATE: '81 LAUNCH DATE: DELIVERY DATE: '82 182 COMMISSION DATE: 188 CONVERSION DATE: LAST OVERHAUL: '87

1.5 YEARS MAINTENANCE CYCLE:

END OF LIFE: 2020

UPDATE OF INFORMATION: 03 DEC 90

168.0 FEET LENGTH: MAX BEAM: HEIGHT: 38.0 FEET 60.0 FEET

GROSS TONNAGE: 288
DISPLACEMENT: 781 TONS
DRAUGHT: 11.0 FEET
CRUISE SPEED: 10.0 KNOTS
RANGE: 6000 NAUTICAL MILES
MAX SPEED: 11.0 KNOTS
MIN SPEED: 0.1 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL AUXILIARY PROPULSION: NONE

NUMBER OF SHAFTS:

360 DEG STEERABLE

BOW THRUSTER:
ACTIVE RUDDER: DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: N

STABILIZER:

DEEP ANCHOR:

BERTHING VAN DIMENSIONS:

INSTRUMENT VAN DIMENSIONS:

8X8X20

8X8X20 WET-LAB:

DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT:

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 17 FOOT RUBBER INFLATABLE

2. 13 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY: 36000 POUNDS

NUMBER OF FRAMES: 2

CRANES OR BOOMS

MAX HOIST CAPACITY: 10000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: OTHER SECONDARY TYPE/USE: UTILITY

SLIP-RINGS:

WIRE TYPE:

WIRE ROPE

WIRE LENGTH:

WIRE DIAMETER:

1.500 INCHES

02. MAJOR TYPE/USE:

HYDROGRAPHIC

SECONDARY TYPE/USE: UTILITY

SLIP-RINGS: N
WIRE TYPE: WIRE ROPE
WIRE LENGTH: 4200 FEET 4200 FEET WIRE DIAMETER: 0.188 INCHES 03. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE: UTILITY

SLIP-RINGS: Y

WIRE TYPE:
WIRE LENGTH:
WIRE DIAMETER:
SECONDARY WIRE TYPE:
WIRE ROPE
3000 FEET
0.188 INCHES
CONDUCTOR CABLE

ELECTRONIC EQUIPMENT

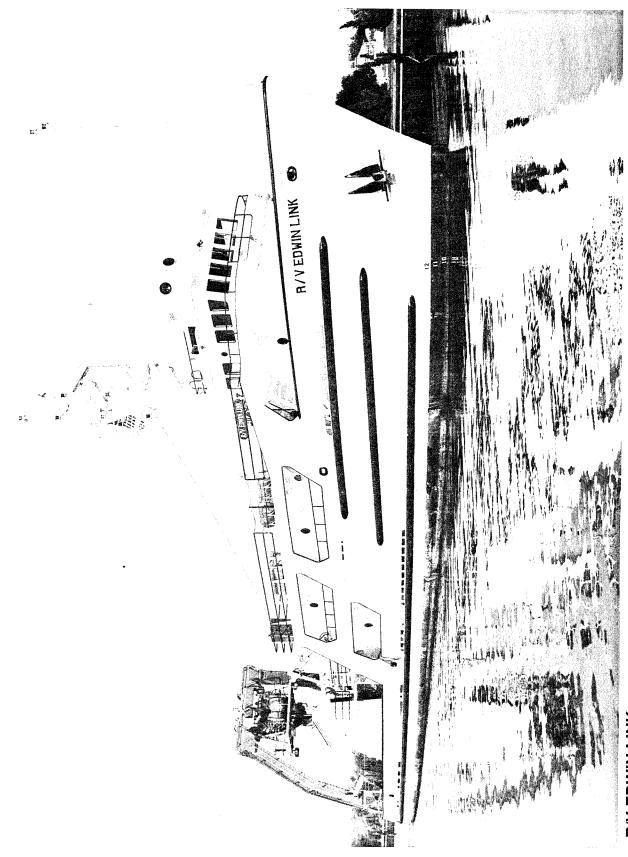
COMPUTERS: NEC, VARIOUS PC'S FACSIMILE: N ELECTROMAGNETIC LOG: N INERTIAL NAVIGATION: Y RADAR (SURFACE SCAN): LORAN A: Y LORAN C: OMEGA: SATELLITE NAVIGATION: Y RADIO TELETYPE COMMUNICATION: N Y SINGLE SIDE BAND: VHF COMMUNICATIONS: STABLE TABLE: N NARROW BEAM: N SEISMIC PROFILING: SIDE SCAN: SOUNDING SYSTEM (SHALLOW): FURUNO, IMPULSE 960 SOUNDING SYSTEM (DEEP): FURUNO

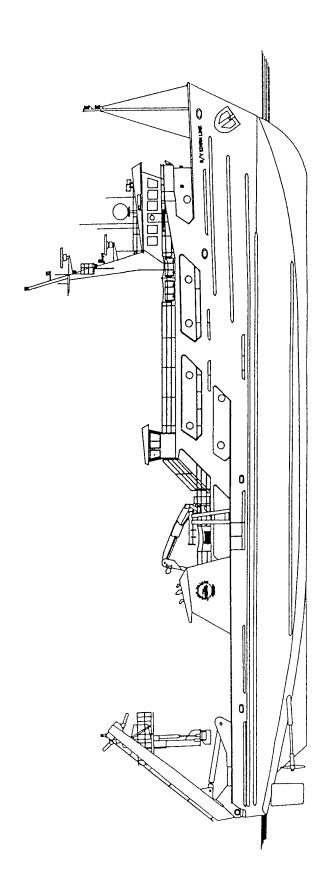
FUEL DETAILS

FUEL CAPACITY: 62000 GALLONS
FUEL TYPE: DIESEL #2

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 2400 GAL/24-HRS
DURING AVERAGE OPERATIONS: 900 GAL/24-HRS
DURING INPORT OPERATIONS: 192 GAL/24-HRS





R/V EDWIN LINK OUTBOARD PROFILE

SEWARD JOHNSON

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

MR. TIM ASKEW POC:

POC:
POC OFFICE:
DIRECTOR, MARINE OPERATIONS
POC ORGANIZATION:
HARBOR BRANCH OCEANOGRAPHIC INSTITUTION, INC.

POC ADDRESS: 5600 OLD DIXIE HIGHWAY FT. PIERCE, FL 34946 POC CITY/STATE:

COMMERCIAL AREA CODE: 407

465-2400 EXT 262 PHONE:

465-2446 FAX: 522886 TELEX:

ADMINISTRATIVE DETAILS

RV DESIGNATOR:

COLOMBUS ISELIN CLASS:

CALL SIGN (INTERNATIONAL): WST9756 UNOLS FLEET:

SUBMERSIBLE TENDER/OCEAN RESEARCH SHIP TYPE:

HARBOR BRANCH OCEANOGRAPHIC INSTITUTION SHIP OWNER:

AMERICAN BUREAU OF SHIPPING CERTIFICATION AUTHORITY:

USA FLAG REGISTRY:

FT. PIERCE, FL HOME PORT:

HARBOR BRANCH OCEANOGRAPHIC INSTITUTION TECHNICAL SPONSOR:

OPERATIONS CONTROL:

CONTRACTUAL INFORMATION:

HARBOR BRANCH OCEANOGRAPHIC INSTITUTION
HARBOR BRANCH OCEANOGRAPHIC INSTITUTION
NONE TECHNICAL SPONSOR:

7.8/90 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 20 NUMBER OFFICERS: 5 NUMBER IN CREW:

6 BEAUFORT SCALE MAX SEA STATE:

30 DAY(S) ENDURANCE: FUEL/STORES LIMITING FACTOR:

ATLANTIC MARINE INC BUILDER: FORT GEORGE ISLAND FL WHERE BUILT:

INITIAL COST: '00 DUE DATE: '84 KEEL DATE: '84 LAUNCH DATE: '85 DELIVERY DATE: 185 COMMISSION DATE: '00 CONVERSION DATE: 190 LAST OVERHAUL:

1.5 YEARS MAINTENANCE CYCLE:

2020 END OF LIFE:

UPDATE OF INFORMATION: 03 DEC 90

176.0 FEET LENGTH: MAX BEAM: HEIGHT: 36.0 FEET 60.0 FEET

GROSS TONNAGE: 299
DISPLACEMENT: 880 TONS
DRAUGHT: 12.0 FEET
CRUISE SPEED: 12.0 KNOTS
RANGE: 8000 NAUTICAL MILES
MAX SPEED: 13.0 KNOTS
MIN SPEED: 0.1 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL AUXILIARY PROPULSION:
NUMBER OF SHAFTS: NONE

BOW THRUSTER:
ACTIVE RUDDER: 360 DEG STEERABLE

N DYNAMIC POSITIONING: N ANTI-ROLL: Y STABILIZER: N

DEEP ANCHOR:

BERTHING VAN DIMENSIONS:

INSTRUMENT VAN DIMENSIONS:

8X8X20

8X8X20

WET-LAB: DRY-LAB: AMMUNITION STORAGE: N HELO SUPPORT: N

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 17 FOOT RUBBER INFLATABLE

2. 13 FOOT BOSTON WHALER

A, U, OR L FRAMES

U, OR L FRAMES

MAX HOIST CAPACITY: 36000 POUNDS

2

CRANES OR BOOMS

MAX HOIST CAPACITY: 10000 POUNDS NUMBER OF CRANES: 1

WINCHES:

01. MAJOR TYPE/USE: OTHER SECONDARY TYPE/USE: UTILITY

SLIP-RINGS: N

WIRE TYPE: WIRE ROPE
WIRE LENGTH: 300 FEET
WIRE DIAMETER: 1.500 INCHES
02. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE: UTILITY

SLIP-RINGS: N
WIRE TYPE: WIRE ROPE
WIRE LENGTH: 3000 FEE 3000 FEET WIRE DIAMETER: 0.188 INCHES 03. MAJOR TYPE/USE: HYDROGRAPHIC SECONDARY TYPE/USE: UTILITY

SLIP-RINGS:
WIRE TYPE:
WIRE LENGTH:
WIRE DIAMETER:

9
WIRE ROPE
3000 FEET
0.188 INCHES

ELECTRONIC EOUIPMENT

NEC, VARIOUS PC'S COMPUTERS: Y FACSIMILE: ELECTROMAGNETIC LOG: N N INERTIAL NAVIGATION: RADAR (SURFACE SCAN): Y LORAN A: N Y LORAN C: OMEGA: SATELLITE NAVIGATION: Y RADIO TELETYPE COMMUNICATION: N Y SINGLE SIDE BAND: VHF COMMUNICATIONS: N STABLE TABLE: NARROW BEAM: N SEISMIC PROFILING: Υ SIDE SCAN: SOUNDING SYSTEM (SHALLOW): FURUNO

FUEL DETAILS

SOUNDING SYSTEM (DEEP):

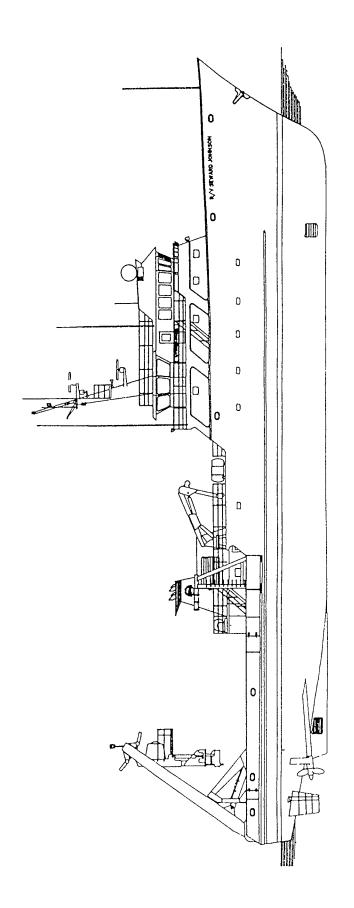
60000 GALLONS FUEL CAPACITY: DIESEL #2 FUEL TYPE:

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 2160 GAL/24-HRS
DURING AVERAGE OPERATIONS: 720 GAL/24-HRS
DURING INPORT OPERATIONS: 160 GAL/24-HRS

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R/V SEWARD JOHNSON OUTBOARD PROFILE

MAURICE EWING

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: CAPT. PAUL LJUNGGREN POC OFFICE: MARINE SUPERINTENDENT

POC OFFICE: MARINE SOFERINGENEEDENT
POC ORGANIZATION: OFFICE OF MARINE AFFAIRS

POC ADDRESS: LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

POC CITY/STATE: PALISADES, NY 10964

COMMERCIAL AREA CODE: 914

PHONE: 359-2900 EXT. 367

ADMINISTRATIVE DETAILS

DESIGNATOR: R'

CLASS: SEISMIC SURVEY

CALL SIGN (INTERNATIONAL): WLDZ FLEET: UNOLS

SHIP TYPE: OCEAN RESEARCH - GENERAL

SHIP OWNER: COLUMBIA UNIVERSITY
CERTIFICATION AUTHORITY: US COAST GUARD - ABS

FLAG REGISTRY: USA

HOME PORT: NEW YORK NY

TECHNICAL SPONSOR: LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

OPERATIONS CONTROL: LDGO OFFICE OF MARINE AFFAIRS

CONTRACTUAL INFORMATION: NONE

OPERATING COST/DAY: 15.1/91 THOUSAND \$'S IN YR

SCIENTIFIC COMPLEMENT: 28
NUMBER OFFICERS: 9
NUMBER IN CREW: 13

MAX SEA STATE: 8 BEAUFORT SCALE

ENDURANCE: 60 DAY(S)

LIMITING FACTOR: FUEL

BUILDER: MARINE INDUSTRIE LIMITEE

WHERE BUILT: SOREL P.Q. CANADA

INITIAL COST: - MILLION \$'S IN YEAR

DUE DATE:

KEEL DATE: OCT 82

LAUNCH DATE: DELIVERY DATE: JUL 83

DELIVERY DATE: JUL 83
COMMISSION DATE: -

CONVERSION DATE:

CONVERSION DATE:

JUN 90

LAST OVERHAUL:

JUN 90

MAINTENANCE CYCLE: 2.0 YEARS

END OF LIFE: UPDATE OF INFORMATION: 10 DEC 90

LENGTH: 239.0 FEET MAX BEAM: 46.0 FEET 100.0 FEET

GROSS TONNAGE: 1978

DRAUGHT: 18.0 FEET
CRUISE SPEED: 11.5 KNOTS
RANGE: 15000 NAUTICAL MILES
MAX SPEED: 13.4 KNOTS
MIN SPEED: 10.5 MANGES DISPLACEMENT: 2637 TONS

MAX SPEED: MIN SPEED: 1.0 KNOTS

ENGINEERING/DECK EOUIPMENT

MAIN PROPULSION:

AUXILIARY PROPULSION:

NUMBER OF SHAFTS.

DIESEL ELECTRIC SCR

NUMBER OF SHAFTS:

BOW THRUSTER: TUNNEL

ACTIVE RUDDER: N DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: N DEEP ANCHOR: Ν BERTHING VAN DIMENSIONS: N
INSTRUMENT VAN DIMENSIONS: 8X8X20 (3)

WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT:

METEOROLOGICAL OBSERVATIONS: MINIMAL

UTILITY BOATS:

1. 17 FOOT RIB A, U, OR L FRAMES

MAX HOIST CAPACITY: 40000 POUNDS NUMBER OF FRAMES: 2

CRANES OR BOOMS

MAX HOIST CAPACITY: 12000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: CORING SECONDARY TYPE/USE: DREDGE

SLIP-RINGS:

WIRE TYPE: WIRE ROPE WIRE LENGTH: 30000 FEET WIRE DIAMETER: 0.562 INCHES

SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LEN: 30000 FEET SECONDARY WIRE DIAM: 0.680 INCHES

02. MAJOR TYPE/USE: HYDROGRAPHIC SECONDARY TYPE/USE: CTD

SLIP-RINGS:

CONDUCTOR CABLE WIRE TYPE:

30000 FEET WIRE LENGTH: 0.320 INCHES WIRE DIAMETER: 03. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE: OTHER

3 SLIP-RINGS:

WIRE ROPE WIRE TYPE: WIRE LENGTH: 30000 FEET 0.250 INCHES WIRE DIAMETER:

ELECTRONIC EQUIPMENT

HASSCOMP, VAX, SGI, IBM COMPUTERS:

FACSIMILE:

DOPPLER ELECTROMAGNETIC LOG:

N INERTIAL NAVIGATION: RADAR (SURFACE SCAN): Y N LORAN A: Y LORAN C: OMEGA: SATELLITE NAVIGATION: Y RADIO TELETYPE COMMUNICATION: Y

SINGLE SIDE BAND: Y VHF COMMUNICATIONS: N STABLE TABLE:

N NARROW BEAM: SEISMIC PROFILING: SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): ELAC SOUNDING SYSTEM (DEEP): 12 & 3.5 KHZ, MULTIBEAM

FUEL DETAILS

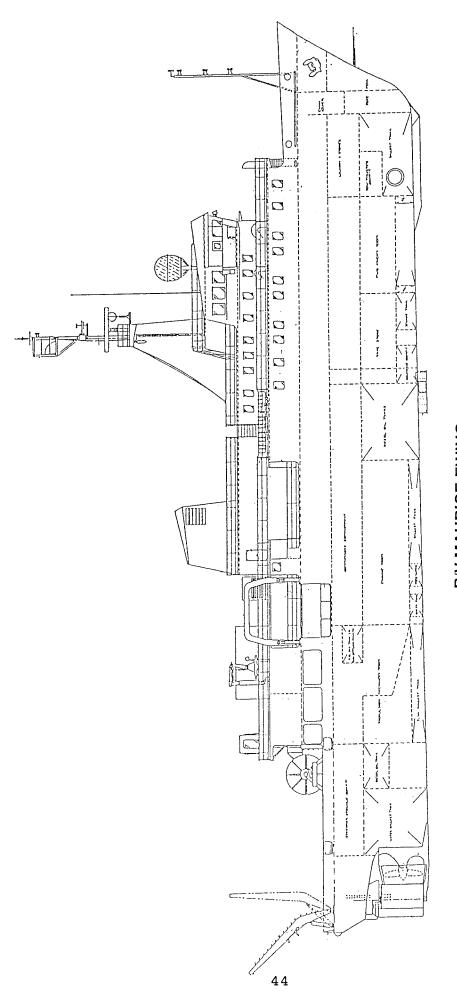
FUEL CAPACITY:

160000 GALLONS MARINE G MARINE GAS OIL FUEL TYPE:

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 2500 GAL/24-HRS DURING AVERAGE OPERATIONS: 2500 GAL/24-HRS DURING INPORT OPERATIONS: 1250 GAL/24-HRS

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R/V MAURICE EWING OUTBOARD PROFILE

PELICAN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:

MR STEVE RABALAIS

POC OFFICE: MARINE SUPERINTENDENT
POC ORGANIZATION: LOUISIANA UNIVERSITY MARINE CONSORTIUM

POC ADDRESS:

LUMCON

POC CITY/STATE:

CHAUVIN LA 70344

COMMERCIAL AREA CODE: 504

PHONE:

851-2800

ADMINISTRATIVE DETAILS

DESIGNATOR:

CLASS:

OCEANOGRAPHIC RESEARCH

CALL SIGN (INTERNATIONAL): WSK3051

FLEET:

UNOLS

SHIP TYPE:

GENERAL OCEAN RESEARCH

SHIP OWNER:

LOUISIANA UNIVERSITY MARINE CONSORTIUM

CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING

FLAG REGISTRY:

USA

HOME PORT:

COCODRIE LA USA

TECHNICAL SPONSOR:

OPERATIONS CONTROL:

COCODRIE LA USA

LOUISIANA UNIVERSITY MARINE CONSORTIUM

LOUISIANA UNIVERSITY MARINE CONSORTIUM

NONE

NONE

OPERATING COST/DAY:

3.2/89 THOUSAND \$'S IN YR

SCIENTIFIC COMPLEMENT: NUMBER OFFICERS:

15 3 2

NUMBER IN CREW: MAX SEA STATE:

4 BEAUFORT SCALE

ENDURANCE:

18 DAY(S)

LIMITING FACTOR:

REFRIGERATED STORES

BUILDER:

ALLIED SHIPYARD LAROSE LA USA

WHERE BUILT: INITIAL COST:

1.7/85 MILLION \$'S IN YEAR 15 FEB 85

DUE DATE:

00 NOV 83

KEEL DATE: LAUNCH DATE:

' 85 185 '85

DELIVERY DATE: COMMISSION DATE:

'00 '00

CONVERSION DATE: LAST OVERHAUL: MAINTENANCE CYCLE:

1.0 YEARS

END OF LIFE:

2010

UPDATE OF INFORMATION:

24 OCT 90

LENGTH: 105.0 FEET MAX BEAM: 26.5 FEET HEIGHT: 48.0 FFFT

GROSS TONNAGE: 291 DISPLACEMENT: 244 TONS DRAUGHT: 9.0 FEET

CRUISE SPEED: 9.0 KNOTS
RANGE: 3490 NAUTICAL MILES
MAX SPEED: 9.0 KNOTS
MIN SPEED: - KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL NONE AUXILIARY PROPULSION:

NUMBER OF SHAFTS:

HYDRAULIC TUNNEL BOW THRUSTER:

ACTIVE RUDDER: DYNAMIC POSITIONING: N ANTI-ROLL: STABILIZER:

DEEP ANCHOR: NONE
BERTHING VAN DIMENSIONS: 8X8X10
INSTRUMENT VAN DIMENSIONS: 8X8X10

WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: HELO SUPPORT: METEOROLOGICAL OBSERVATIONS: YES

UTILITY BOATS:

1. 13 FOOT UTILITY

A, U, OR L FRAMES

MAX HOIST CAPACITY: 36000 POUNDS NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 8000 POUNDS NUMBER OF CRANES: 1

WINCHES:

01. MAJOR TYPE/USE: TRAWL

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE TYPE:

WIRE ROPE

WIRE LENGTH:

WIRE DIAMETER:

0.500 INCHES

02. MAJOR TYPE/USE:

HYDROGRAPHIC

SECONDARY TYPE/USE: UTILITY

SLIP-RINGS: N

WIRE ROPE 10500 FEET 0.187 INCHES WIRE TYPE: WIRE LENGTH: WIRE DIAMETER:

03. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE TYPE: CONDUCTOR CABLE
WIRE LENGTH: 24000 FEET
WIRE DIAMETER: 0.219 INCHES

ELECTRONIC EQUIPMENT

ZENITH 386 COMPUTERS: FACSIMILE: N ELECTROMAGNETIC LOG: INERTIAL NAVIGATION: RADAR (SURFACE SCAN): N LORAN A: LORAN C: OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: N SINGLE SIDE BAND:

VHF COMMUNICATIONS: STABLE TABLE: N NARROW BEAM: SEISMIC PROFILING:

SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): FURUNO DATA SO

DATA SONICS

FUEL DETAILS

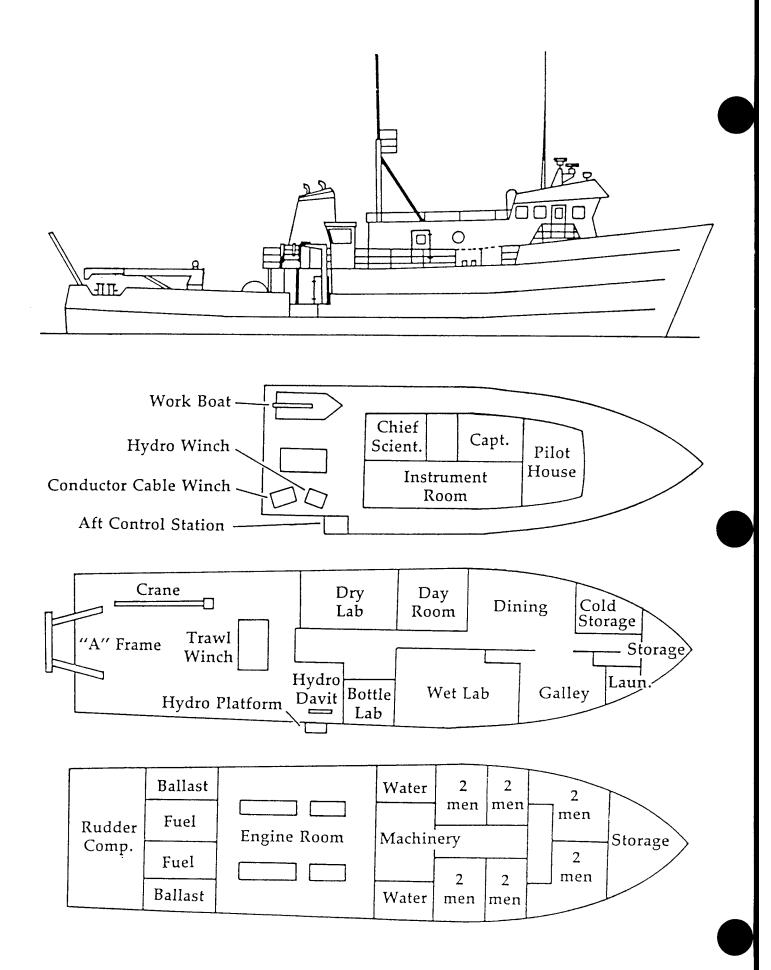
FUEL CAPACITY:

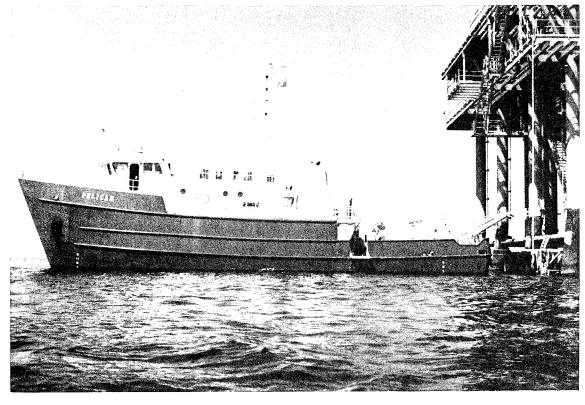
15724 GALLONS DIESEL ‡ DIESEL #2/DIESEL #1 FUEL TYPE:

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 600 GAL/24-HRS DURING AVERAGE OPERATIONS: 400 GAL/24-HRS DURING INPORT OPERATIONS: 150 GAL/24-HRS

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R/V PELICAN

CALANUS

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. RON HUTCHINSON

POC OFFICE: MANAGER, MARINE OPERATIONS

POC ORGANIZATION: UNIVERSITY OF MIAMI

POC ADDRESS: 4600 RICKENBACKER CAUSEWAY

POC CITY/STATE: MIAMI FL 33149

COMMERCIAL AREA CODE: 305

PHONE: 361-4880

ADMINISTRATIVE DETAILS

DESIGNATOR: ORV

CLASS: CLASS E CALL SIGN (INTERNATIONAL): WTR7339

FLEET: UNOLS

SHIP TYPE: OCEAN RESEARCH-GENERAL SHIP OWNER: UNIVERSITY OF MIAMI

CERTIFICATION AUTHORITY: NONE
FLAG REGISTRY: USA
HOME PORT: MIAMI FL

TECHNICAL SPONSOR: UNIVERSITY OF MIAMI OPERATIONS CONTROL: UNIVERSITY OF MIAMI

CONTRACTUAL INFORMATION: NONE

OPERATING COST/DAY: 2.2/89 THOUSAND \$'S IN YR

SCIENTIFIC COMPLEMENT: 6
NUMBER OFFICERS: 1
NUMBER IN CREW: 1

MAX SEA STATE: 4 BEAUFORT SCALE

ENDURANCE: 15 DAY(S)

LIMITING FACTOR: CREW

BUILDER: ATLANTIC MARINE INC WHERE BUILT: JACKSONVILLE FL USA

INITIAL COST: .089/71 MILLION \$'S IN YEAR

DUE DATE: '00
KEEL DATE: 00 MAR 71

LAUNCH DATE: '71

DELIVERY DATE: 00 SEP 71 COMMISSION DATE: 00 OCT 71

CONVERSION DATE: '00 LAST OVERHAUL: '85

MAINTENANCE CYCLE: 1.0 YEARS

END OF LIFE: 1995

UPDATE OF INFORMATION: 27 APR 90

69.0 FEET 20.0 FEET LENGTH: MAX BEAM: HEIGHT: 24.0 FEET

GROSS TONNAGE: 83
DISPLACEMENT: 88 TONS
DRAUGHT: 4.9 FEET
CRUISE SPEED: 6.5 KNOTS
RANGE: 2500 NAUTICAL MILES
MAX SPEED: 7.0 KNOTS
MIN SPEED: KNOTS

- KNOTS MIN SPEED:

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED

AUXILIARY PROPULSION: NO NUMBER OF SHAFTS: 2 BOW THRUSTER: NO ACTIVE RUDDER: N DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER:

BERTHING VAN DIMENSIONS:
INSTRUMENT VAN DIMENSIONS:
WET-LAB:
DRY-LAB:
V

DRY-LAB: AMMUNITION STORAGE: HELO SUPPORT:

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 13 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 5000 POUNDS NUMBER OF FRAMES: 1

CRANES OR BOOMS

MAX HOIST CAPACITY: 1500 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: CTD

SECONDARY TYPE/USE:

SLIP-RINGS: Y

WIRE ROPE 10000 FEET WIRE TYPE: wike LENGTH:
WIRE DIAMETER:
02. MAJOR TYPE/USE:
SECONDARY TYPE 0.322 INCHES HYDROGRAPHIC

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE TYPE: WIRE ROPE WIRE LENGTH: 6000 FEET WIRE DIAMETER: 0.187 INCHES

ELECTRONIC EQUIPMENT

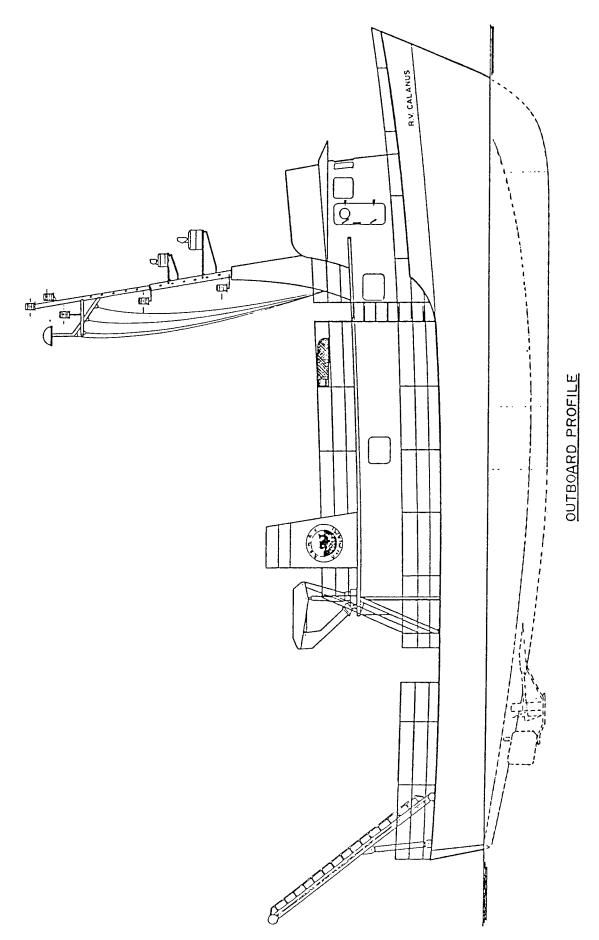
COMPUTERS:	ΗP	85	(2)
FACSIMILE:	N		
ELECTROMAGNETIC LOG:	N		
INERTIAL NAVIGATION:	N		
RADAR (SURFACE SCAN):	Y		
LORAN A:	N		
LORAN C:	Y		
OMEGA:	N		
SATELLITE NAVIGATION:	Y		
RADIO TELETYPE COMMUNICATION:	N		
SINGLE SIDE BAND:	Y		
VHF COMMUNICATIONS:	Y		
STABLE TABLE:	N		
NARROW BEAM:	N		
SEISMIC PROFILING:	N		
SIDE SCAN:	N		
SOUNDING SYSTEM (SHALLOW):	RA:	YTHI	EON
SOUNDING SYSTEM (DEEP):	RA:	YTHI	EON

SOUNDING SYSTEM (DEEP): RATTHEON

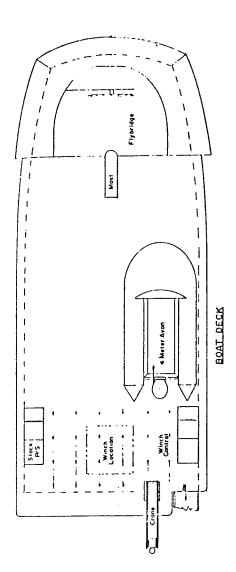
FUEL DETAILS

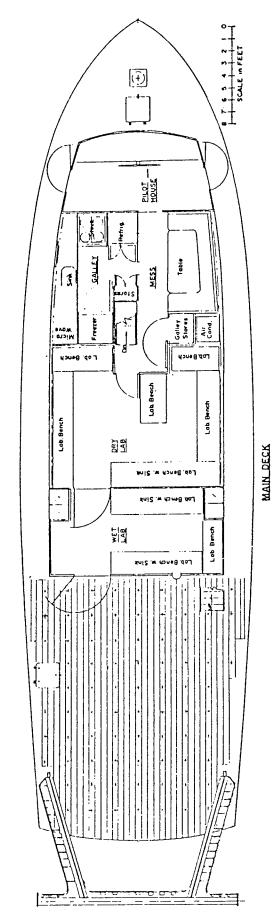
FUEL	CAPACITY:		4800	GALLONS		
FUEL	TYPE:			MG-O/DIESEL	#2/LIGHT	DO
FUEL	CONSUMPTION	RATES:				

AT NORMAL CRUISING SPEED: 216 GAL/24-HRS DURING AVERAGE OPERATIONS: 150 GAL/24-HRS DURING INPORT OPERATIONS: 20 GAL/24-HRS



R/V CALANUS





R/V CALANUS

COLUMBUS ISELIN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR RON HUTCHINSON

POC OFFICE: MANAGER, MARINE OPERATIONS

POC ORGANIZATION: UNIVERSITY OF MIAMI

POC ADDRESS: 4600 RICKENBACKER CAUSEWAY

POC CITY/STATE: MIAMI FL 33149

COMMERCIAL AREA CODE: 305

PHONE: 361-4080

ADMINISTRATIVE DETAILS

DESIGNATOR: ORV
CLASS: CLASS C
CALL SIGN (INTERNATIONAL): WTB5807

FLEET: UNOLS

SHIP TYPE: OCEAN RESEARCH-GENERAL SHIP OWNER: UNIVERSITY OF MIAMI

CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING

FLAG REGISTRY: USA HOME PORT: MIAMI FL

TECHNICAL SPONSOR: UNIVERSITY OF MIAMI OPERATIONS CONTROL: UNIVERSITY OF MIAMI

CONTRACTUAL INFORMATION: NONE

OPERATING COST/DAY: 8.7/89 THOUSAND \$'S IN YR

SCIENTIFIC COMPLEMENT: 24 NUMBER OFFICERS: 6 NUMBER IN CREW: 6

MAX SEA STATE: 5 BEAUFORT SCALE

ENDURANCE: 30 DAY(S)

LIMITING FACTOR: CREW

BUILDER: J BELLINGER SHIPYARDS INC WHERE BUILT: JACKSONVILLE FL USA

INITIAL COST: 1.4/72 MILLION \$'S IN YEAR

DUE DATE: '00
KEEL DATE: 00 FEB 71
LAUNCH DATE: '71

DELIVERY DATE: 15 SEP 72 COMMISSION DATE: 15 SEP 72

CONVERSION DATE: '00 LAST OVERHAUL: '85

MAINTENANCE CYCLE: 1.0 YEARS

END OF LIFE: 2002

UPDATE OF INFORMATION: 27 APR 90

MAX BEAM: 170.0 FEET HEIGHT: 60.0 FEET

GROSS TONNAGE: 281
DISPLACEMENT: 830 TONS
DRAUGHT: 10.5 FEET
CRUISE SPEED: 12.5 KNOTS
RANGE: 9700 NAUTICAL MILES
MAX SPEED: 14.5 KNOTS
MIN SPEED: - KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED

AUXILIARY PROPULSION: NO NUMBER OF SHAFTS: 2

BOW THRUSTER: TUNNEL

ACTIVE RUDDER: N DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: N

DEEF ANCHUR:

BERTHING VAN DIMENSIONS:

INSTRIMENT VAN DIMENSIONS:

8X8X20 INSTRUMENT VAN DIMENSIONS: 8X8X20

WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT: N

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 18 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

20000 POUNDS 2 MAX HOIST CAPACITY:

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 10000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: TRAWL SECONDARY TYPE/USE: CORING

> SLIP-RINGS: Y

WIRE TYPE: WIRE ROPE WIRE TYPE:
WIRE ROPE

WIRE LENGTH:
WIRE 33000 FEET

WIRE DIAMETER:
0.562 INCHES

O2. MAJOR TYPE/USE:
HYDROGRAPHIC

SECONDARY TYPE/USE: CTD SLIP-RINGS: Y

> WIRE TYPE: CONDUCTOR CABLE

WIRE LENGTH: 33000 FEET WIRE DIAMETER: 0.322 INCHES 03. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE: CTD Y SLIP-RINGS:

WIRE ROPE WIRE TYPE: WIRE LENGTH: 33000 FEET WIRE DIAMETER: 0.187 INCHES

ELECTRONIC EQUIPMENT

MICROVAX III, IBM PCS COMPUTERS: Y FACSIMILE: ELECTROMAGNETIC LOG: N N INERTIAL NAVIGATION: Y RADAR (SURFACE SCAN): LORAN A: N Y LORAN C: OMEGA: SATELLITE NAVIGATION: Y RADIO TELETYPE COMMUNICATION: N Y SINGLE SIDE BAND: Y VHF COMMUNICATIONS: N STABLE TABLE: NARROW BEAM: SEISMIC PROFILING: N SOUNDING SYSTEM (SHALLOW): RAYTHEON SOUNDING SYSTEM (DEEP): EDO/RAYTH SIDE SCAN:

FUEL DETAILS

56000 GALLONS DIESEL # FUEL CAPACITY:

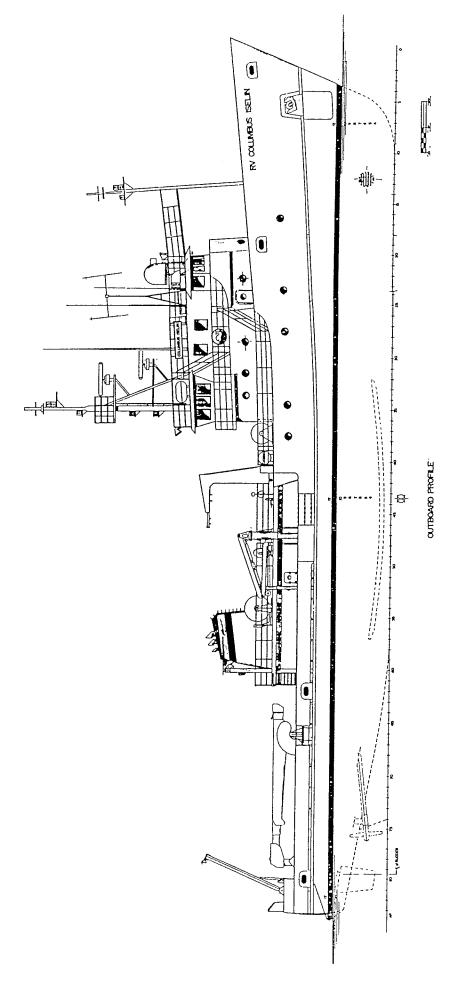
DIESEL #2/MG-O/LIGHT DO FUEL TYPE:

EDO/RAYTHEON

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 1500 GAL/24-HRS
DURING AVERAGE OPERATIONS: 869 GAL/24-HRS
DURING INPORT OPERATIONS: 160 GAL/24-HRS

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POINT SUR

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

MR MICHAEL PRINCE POC:

POC OFFICE: MARINE SUPERINTENDENT

POC ORGANIZATION: MOSS LANDING MARINE LABORATORY

P.O. BOX 450 POC ADDRESS:

POC CITY/STATE: MOSS LANDING CA 95039

COMMERCIAL AREA CODE: 408

633-3534 PHONE:

ADMINISTRATIVE DETAILS

CLASS D DESIGNATOR:

COASTAL ZONE R/V CLASS:

CALL SIGN (INTERNATIONAL): WSC2276 UNOLS

FLEET: OCEAN RESEARCH - COASTAL ZONE SHIP TYPE: NATIONAL SCIENCE FOUNDATION SHIP OWNER:

CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING

USA FLAG REGISTRY:

MOSS LANDING CA USA HOME PORT:

TECHNICAL SPONSOR:

OPERATIONS CONTROL:

CONTRACTUAL INFORMATION:

OPERATING COST/DAY:

MOSS LANDING MARINE LABORATORY

MOSS LANDING MARINE LABORATORY

NSF CHARTER PARTY AGREEMENT. EXPIRES 1995.

6.0/90 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 12 5 NUMBER OFFICERS: NUMBER IN CREW: 4

7 BEAUFORT SCALE MAX SEA STATE:

21 DAY(S) ENDURANCE: DRY STORES LIMITING FACTOR:

ATLANTIC MARINE INC. BUILDER: FORT GEORGE ISLAND FL WHERE BUILT:

3.0/81 MILLION \$'S IN YEAR INITIAL COST:

'00 DUE DATE:

15 JUN 80 KEEL DATE: 15 FEB 81 LAUNCH DATE: DELIVERY DATE: 20 MAY 81 24 JUN 81 COMMISSION DATE: 100

CONVERSION DATE: 189 LAST OVERHAUL:

1.0 YEARS MAINTENANCE CYCLE:

END OF LIFE: 2006

UPDATE OF INFORMATION: 30 NOV 90

MAX BEAM: 32.0 FEET HEIGHT: 58.0 FEET

GROSS TONNAGE: 294
DISPLACEMENT: 539 TONS DRAUGHT: 9.0 FEET

CRUISE SPEED: 11.0 KNOTS
RANGE: 7680 NAUTICAL MILES
MAX SPEED: 11.0 KNOTS
MIN SPEED: 0.1 KNOTS

ENGINEERING/DECK EOUIPMENT

MAIN PROPULSION: DIESEL

AUXILIARY PROPULSION: NUMBER OF SHAFTS: BOW THRUSTER: ACTIVE RUDDER: DYNAMIC POSITIONING: ANTI-ROLL: STABILIZER:

DEEP ANCHOR: 3000 FEET BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: 8X8X10

WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: HELO SUPPORT: N METEOROLOGICAL OBSERVATIONS: N

UTILITY BOATS:

1. 14 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 20000 POUNDS

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 16200 POUNDS NUMBER OF CRANES: 2

WINCHES:

01. MAJOR TYPE/USE: TRAWL SECONDARY TYPE/USE: DREDGE

SLIP-RINGS: Y

WIRE TYPE:
WIRE ROPE
WIRE LENGTH:
WIRE DIAMETER:

0.500 INCHES

MAJOR TYPE/USE:
HYDROGRAPHIC
SECONDARY TYPE/USE:
STD

SLIP-RINGS:

WIRE TYPE:

CONDUCTOR CABLE WIRE LENGTH: 15000 FEET WIRE DIAMETER: 0.250 INCHES

STD 03. MAJOR TYPE/USE: SECONDARY TYPE/USE: STD

SLIP-RINGS:

WIRE TYPE: CONDUCTOR CABLE

WIRE LENGTH: 15000 FEET 0.322 INCHES WIRE DIAMETER:

ELECTRONIC EQUIPMENT

COMPUTERS: FACSIMILE: ELECTROMAGNETIC LOG: INERTIAL NAVIGATION: RADAR (SURFACE SCAN): LORAN A: LORAN C: OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: -SINGLE SIDE BAND: Υ VHF COMMUNICATIONS: STABLE TABLE: NARROW BEAM: N SEISMIC PROFILING: SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): RAYTHEON SOUNDING SYSTEM (DEEP): RAYTHEON/EDO

FUEL DETAILS

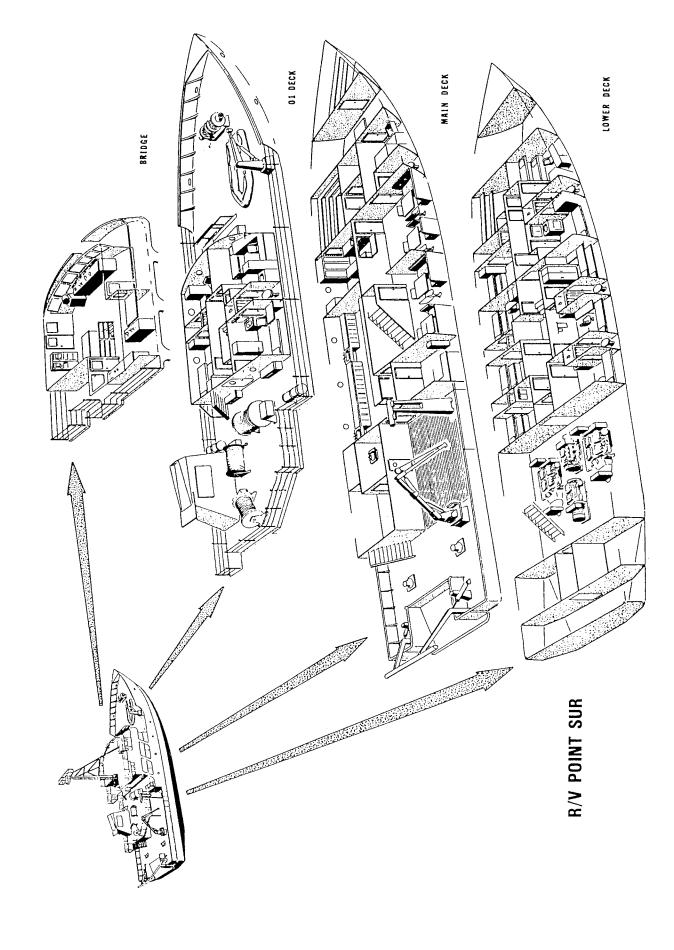
29400 GALLONS FUEL CAPACITY: MG-O FUEL TYPE:

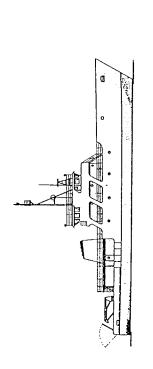
FUEL CONSUMPTION RATES:

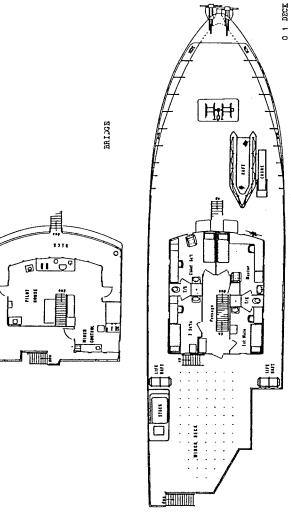
AT NORMAL CRUISING SPEED: 1200 GAL/24-HRS DURING AVERAGE OPERATIONS: 1000 GAL/24-HRS DURING INPORT OPERATIONS: 100 GAL/24-HRS

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R/V POINT SUR

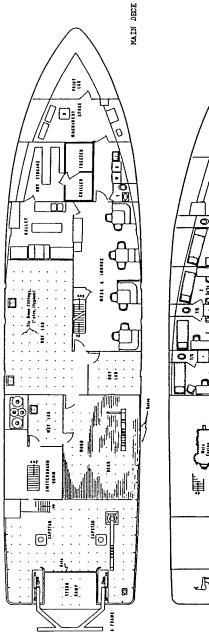


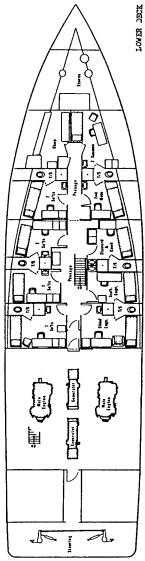




GENERAL DATA:

	32 feet 9 feet 294 tomm	539 light tons 11.5 knots	0-10 knots 5,600 n. miles	21 daye	JRY LAB 480 89. ft.	1100 8q. ft.	Nine	Twelve	National Science Foundation	Landing Marine Laboratories for CENCAL	1980	Moss Landing, California
LENGTH OVERALL LENGTH BETWEEN PERPENDICULARS	BLAM DRAFT (FULL LOAD) GROSS TONNAGE	DISPLACEMENT (FULL LOAD) MAXIMUM SUSTAINED SPEED	MANEUVERING SPEED CRUISING RANGE (NORMAL)	SN JURAHCE (NORMAL)	LABORATORY AREA JR	MAIN DECK AREA	CREW	SCIENTIFIC BERTHING	OWNTR National S	OPERATOR Moss Landing Ma	BULL	HOME PORT MOSS La





WECOMA

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

CAPT K. M. PALFREY POC:

POC:
POC OFFICE:
POC ORGANIZATION: MARINE SUPERINTENDENT/SHIP OPS OREGON STATE U., COLLEGE OF OCEANOGRAPHY

HATFIELD MARINE SCIENCE CENTER POC ADDRESS:

NEWPORT OR 97365 POC CITY/STATE:

COMMERCIAL AREA CODE: 503

867-0295 PHONE:

ADMINISTRATIVE DETAILS

DESIGNATOR: RV

OCEANUS CLASS: CALL SIGN (INTERNATIONAL): WSD7079

UNOLS FLEET:

OCEAN RESEARCH-GENERAL SHIP TYPE:

SHIP OWNER: NATIONAL SCIENCE FOUNDATION

CERTIFICATION AUTHORITY: USA

FLAG REGISTRY:

NEWPORT OR HOME PORT:

OREGON STATE UNIVERSITY TECHNICAL SPONSOR: OPERATIONS CONTROL: OREGON STATE UNIVERSITY

CONTRACTUAL INFORMATION: NONE

9.0/89 THOUSAND \$'S IN YR OPERATING COST/DAY:

20 SCIENTIFIC COMPLEMENT: 6 NUMBER OFFICERS: NUMBER IN CREW: 7

6 BEAUFORT SCALE MAX SEA STATE:

30 DAY(S) ENDURANCE:

FUEL LIMITING FACTOR:

PETERSON BUILDERS BUILDER:

USA WHERE BUILT:

3.1/75 MILLION \$'S IN YEAR INITIAL COST:

'00 DUE DATE: '00 KEEL DATE: '75 LAUNCH DATE: '75 DELIVERY DATE:

15 MAY 76 COMMISSION DATE:

CONVERSION DATE: '00 190 LAST OVERHAUL:

2.0 YEARS MAINTENANCE CYCLE:

2001 END OF LIFE:

UPDATE OF INFORMATION: 24 OCT 90

177.0 FEET LENGTH: MAX BEAM: HEIGHT: 33.0 FEET - FEET

GROSS TONNAGE: 289
DISPLACEMENT: 1059 TONS DRAUGHT: 18.5 FEET
CRUISE SPEED: 12.0 KNOTS
RANGE: 8640 NAUTICAL MILES
MAX SPEED: 14.5 KNOTS
MIN SPEED: 1.0 KNOTS

ENGINEERING/DECK EOUIPMENT

MAIN PROPULSION: DIESEL GEARED

NO AUXILIARY PROPULSION: NUMBER OF SHAFTS: 1

BOW THRUSTER: TRAINABLE

ACTIVE RUDDER: DYNAMIC POSITIONING:

ANTI-ROLL: BILGE KEEL

STABILIZER: DEEP ANCHOR: NONE BERTHING VAN DIMENSIONS: NONE
INSTRUMENT VAN DIMENSIONS: 8X8X20 (2)

WET-LAB: DRY-LAB: AMMUNITION STORAGE: N HELO SUPPORT:

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 13 FOOT SKIFF 2. 14 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

7000 POUNDS MAX HOIST CAPACITY:

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 30000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: CORING SECONDARY TYPE/USE: TRAWL

SLIP-RINGS:

WIRE TYPE:

WIRE ROPE

WIRE LENGTH:

WIRE DIAMETER:

0.500 INCHES

O2. MAJOR TYPE/USE:

SECONDARY TYPE/USE:

HYDROGRAPHIC

SLIP-RINGS: 4

WIRE TYPE: WIRE ROPE
WIRE LENGTH: 20000 FEET
WIRE DIAMETER: 0.375 INCHES SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LEN: 25000 FEET SECONDARY WIRE DIAM: 0.225 INCHES 03. MAJOR TYPE/USE: HYDROGRAPHIC SECONDARY TYPE/USE: SLIP-RINGS: WIRE ROPE WIRE TYPE:

WIRE LENGTH: 30000 FEET WIRE DIAMETER: 0.188 INCHES SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LEN: 25000 FEET SECONDARY WIRE DIAM: 0.225 INCHES 04. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE: OTHER SLIP-RINGS: 4

CONDUCTOR CABLE WIRE TYPE:

WIRE TYPE: CONDUCTOR CAN
WIRE LENGTH: 20000 FEET
WIRE DIAMETER: 0.320 INCHES
05. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE ROPE WIRE LENGTH: WIRE TYPE: WIRE LENGTH: 24000 FEET WIRE DIAMETER: 0.250 INCHES

ELECTRONIC EQUIPMENT

LEADING EDGE MODEL D; TOSHIBA T3200 COMPUTERS: Y FACSIMILE: Y ELECTROMAGNETIC LOG: N INERTIAL NAVIGATION: Y RADAR (SURFACE SCAN): N LORAN A: LORAN C: OMEGA: SATELLITE NAVIGATION: Y RADIO TELETYPE COMMUNICATION: N SINGLE SIDE BAND: VHF COMMUNICATIONS: N STABLE TABLE: N NARROW BEAM: SEISMIC PROFILING: SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): JRC
SOUNDING SYSTEM (DEEP): EDO/RAYTHEON

FUEL DETAILS

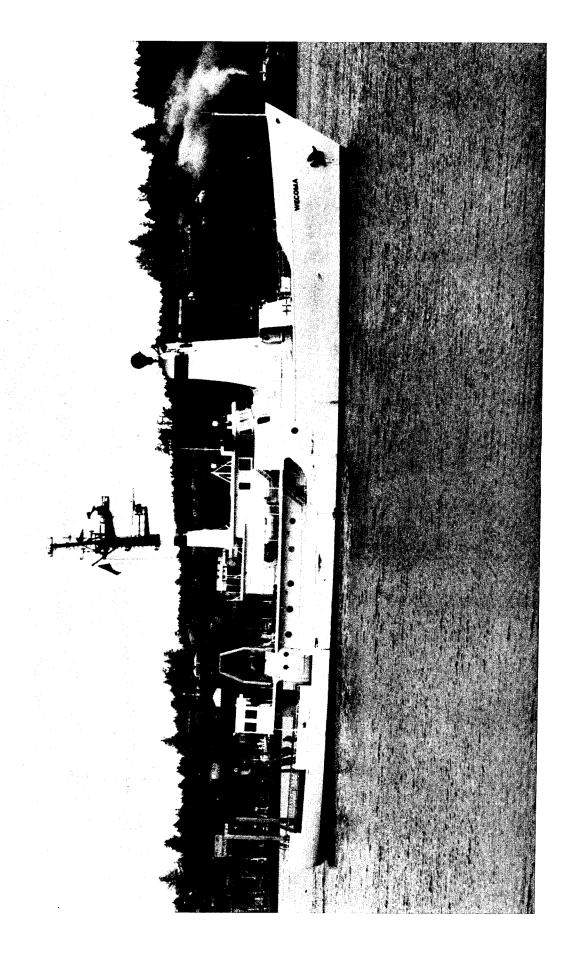
56000 GALLONS FUEL CAPACITY:

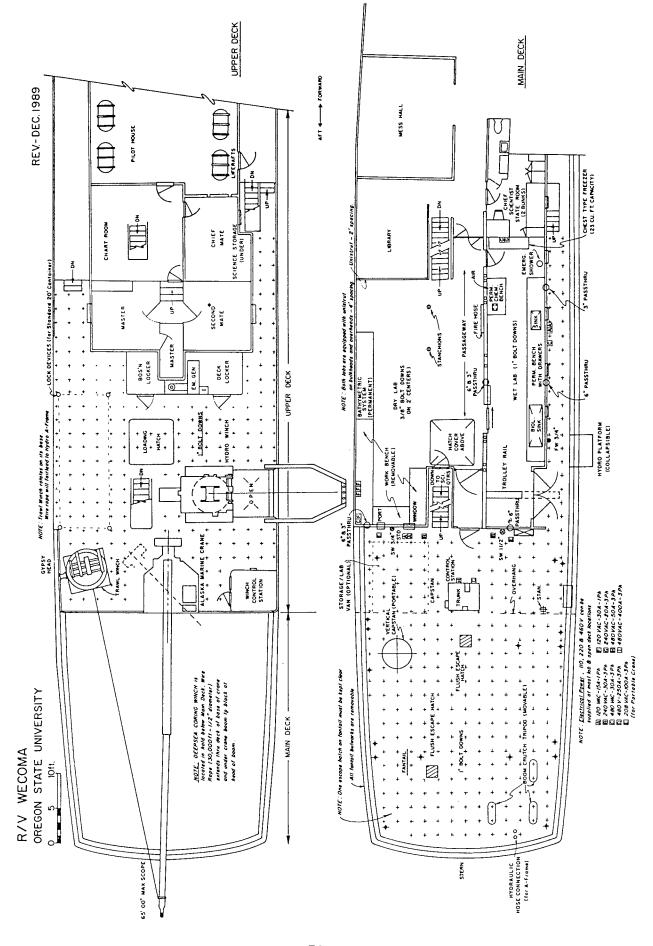
DIESEL #2/JP-5 FUEL TYPE:

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 2000 GAL/24-HRS
DURING AVERAGE OPERATIONS: 1800 GAL/24-HRS
DURING INPORT OPERATIONS: 0 GAL/24-HRS

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ENDEAVOR

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

MR JOHN F BASH POC:

POC OFFICE:

MARINE SUPERINTENDENT GRADUATE SCHOOL OF OCEANOGRAPHY POC OFFICE:
POC ORGANIZATION:

UNIVERSITY OF RHODE ISLAND POC ADDRESS:

NARRAGANSETT RI 02882 POC CITY/STATE:

COMMERCIAL AREA CODE: 401

792-6203 PHONE:

ADMINISTRATIVE DETAILS

RV DESIGNATOR:

CLASS: OCEANUS CALL SIGN (INTERNATIONAL): WVFQ UNOLS FLEET:

SHIP TYPE: OCEAN RESEARCH-GENERAL

SHIP OWNER: NATIONAL SCIENCE FOUNDATION CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING

USA FLAG REGISTRY:

NARRAGANSETT RI HOME PORT:

OPERATIONS CONTROL:
CONTRACTUAL TWOCALS UNIVERSITY OF RHODE ISLAND UNIVERSITY OF RHODE ISLAND

CONTRACTUAL INFORMATION: NONE

8.8/89 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 16 NUMBER OFFICERS: 6 NUMBER IN CREW:

MAX SEA STATE: 5 BEAUFORT SCALE

30 DAY(S) ENDURANCE:

LIMITING FACTOR: FUEL

PETERSON BUILDERS INC BUILDER: WHERE BUILT: STURGEON BAY WI USA

INITIAL COST: DUE DATE: '00

KEEL DATE: 23 JAN 75 LAUNCH DATE: 06 SEP 75 DELIVERY DATE: 28 OCT 76

'00 COMMISSION DATE: CONVERSION DATE: '00

00 DEC 88 LAST OVERHAUL: 2.0 YEARS MAINTENANCE CYCLE:

END OF LIFE: 2001

UPDATE OF INFORMATION: 27 NOV 90

LENGTH: 177.0 FEET 33.0 FEET MAX BEAM: HEIGHT: 88.2 FEET

GRUSS TONNAGE: 290
DISPLACEMENT: 972 TONS
DRAUGHT. DRAUGHT: 17.6 FEET CRUISE SPEED: 12.0 KNOTS

RANGE: 7000 NAUTICAL MILES

MAX SPEED: 15.4 KNOTS MIN SPEED: 0.5 KNOTS

ENGINEERING/DECK EOUIPMENT

MAIN PROPULSION: DIESEL GEARED AUXILIARY PROPULSION: BOW THRUSTER

NUMBER OF SHAFTS:

BOW THRUSTER: TRAINABLE WATER JET

ACTIVE RUDDER: N N DYNAMIC POSITIONING: ANTI-ROLL: N STABILIZER: N DEEP ANCHOR: NONE BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: 8X8X20

WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT: N

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 16 FOOT RUBBER INFLATABLE

2. 17.5 FOOT RUBBER INFLATABLE RIGID HULL

A, U, OR L FRAMES

MAX HOIST CAPACITY: 26000 POUNDS

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 30000 POUNDS NUMBER OF CRANES: 1

WINCHES:

01. MAJOR TYPE/USE: CTD

SECONDARY TYPE/USE: HYDROGRAPHIC

SLIP-RINGS:

WIRE TYPE: CONDUCTOR CABLE

WIRE LENGTH: 30000 FEET WIRE DIAMETER: 0.322 INCHES SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LEN: 30000 FEET SECONDARY WIRE DIAM: 0.250 INCHES

HYDROGRAPHIC 02. MAJOR TYPE/USE:

> SECONDARY TYPE/USE: CTD 4 SLIP-RINGS:

WIRE ROPE WIRE TYPE: WIRE TYPE: WIRE ROPE
WIRE LENGTH: 30000 FEET
WIRE DIAMETER: 0.250 INCHES SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LEN: 30000 FEET SECONDARY WIRE DIAM: 0.322 INCHES

03. MAJOR TYPE/USE: DEEP SEA SAMPLING SECONDARY TYPE/USE: TRAWL

4 SLIP-RINGS:

KEVLAR CABLE WIRE TYPE: WIRE LENGTH: 26247 FEET WIRE DIAMETER: 0.625 INCHES SECONDARY WIRE TYPE: WIRE ROPE SECONDARY WIRE LEN: 32800 FEET SECONDARY WIRE DIAM: 0.5625 INCHES

ELECTRONIC EQUIPMENT

DEC MICROVAX II COMPUTERS:

ALDEN MARINEFAX VI; WEST NAVFAX FACSIMILE:

ELECTROMAGNETIC LOG: N INERTIAL NAVIGATION: N

SPERRY 2500C-27 RASCAR & MARK 127E RADAR (SURFACE SCAN):

LORAN A:

NORTHSTAR 800 & 7000 LORAN C:

MAGNAVOX 1105 OMEGA:

SATELLITE NAVIGATION: MAGNAVOX 1105; TRIMBLE 4000A

RADIO TELETYPE COMMUNICATION: N

SINGLE SIDE BAND:

HARRIS RF-3200 ICOM M100 & REGENCY POLARIS NC-7200 N VHF COMMUNICATIONS:

STABLE TABLE: NARROW BEAM: N Y SEISMIC PROFILING: SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): ROSS DS-600C
SOUNDING SYSTEM (DEEP): RAYTHEON
TELEX COMMUNICATIONS: TELESYSTEMS MDC 9100 INMARSAT

FUEL DETAILS

56000 GALLONS FUEL CAPACITY: DIESEL #2 FUEL TYPE:

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 2100 GAL/24-HRS
DURING AVERAGE OPERATIONS: 1200 GAL/24-HRS DURING INPORT OPERATIONS: 600 GAL/24-HRS

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R/V ENDEAVOR

MELVILLE

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

MRS. ROSE M. DUFOUR/CAPT J. WILLIAMS POC:

POC OFFICE: SHIP SCHEDULER/MARINE SUPERINTENDEN'
POC ORGANIZATION: SCRIPPS INSTITUTION OF OCEANOGRAPHY SHIP SCHEDULER/MARINE SUPERINTENDENT

UNIVERSITY OF CALIFORNIA SAN DIEGO

POC ADDRESS:
POC CITY/STATE: LA JOLLA CA 92093-0210

COMMERCIAL AREA CODE: 619

534-2841/534-1643 PHONE:

ADMINISTRATIVE DETAILS

AGOR 14 DESIGNATOR:

MELVILLE/AGOR 14 CLASS:

CALL SIGN (INTERNATIONAL): WECB UNOLS FLEET:

OCEAN RESEARCH-GENERAL SHIP TYPE:

USN SHIP OWNER:

CERTIFICATION AUTHORITY: US COAST GUARD-ABS

USA FLAG REGISTRY:

SAN DIEGO CA

HOME PORT:

TECHNICAL SPONSOR:

OPERATIONS CONTROL:

CONTRACTUAL INFORMATION:

UNIVERSITY OF CALIFORNIA SAN DIEGO

ONR CODE 611 LEASE TO EXPIRE 27 JUL 96

CON # - N00014-91-L-0049

14.4/92 THOUSAND \$'S IN YR OPERATING COST/DAY:

35 SCIENTIFIC COMPLEMENT: 9 NUMBER OFFICERS: 14 NUMBER IN CREW:

8 BEAUFORT SCALE MAX SEA STATE: 40 DAY(S) @ 12 KTS ENDURANCE:

STORES LIMITING FACTOR:

DEFOE SHIPBUILDING COMPANY BUILDER: BAY CITY MI USA

6.0/69 MILLION \$'S IN YEAR

WHERE BUILT: INITIAL COST:

100

DUE DATE:

12 JUL 67 KEEL DATE: LAUNCH DATE: 10 JUL 68 DELIVERY DATE: 01 SEP 69 27 AUG 69 COMMISSION DATE: 00 FEB 92 CONVERSION DATE: 00 FEB 92

LAST OVERHAUL: MAINTENANCE CYCLE: 2.0 YEARS

2007 END OF LIFE:

UPDATE OF INFORMATION: 01 DEC 91

LENGTH: 279.0 FEET MAX BEAM: 46.0 FEET HEIGHT: 112.0 FEET

GROSS TONNAGE: 2200

DISPLACEMENT: 2685 TONS DRAUGHT: 15.5 FEET

CRUISE SPEED: 12.0 KNOTS
RANGE: 12000 NAUTICAL MILES
MAX SPEED: 14.0 KNOTS MAX SPEED: MIN SPEED: 0.0 KNOTS

ENGINEERING/DECK EOUIPMENT

AUXILIARY PROPULSION:

NUMBER OF SHAFTS:

BOW THRUSTER

2 Z-DRIVES

2 Z-DRIVES RETRACTABLE Z-DRIVE BOW THRUSTER:

ACTIVE RUDDER: N DYNAMIC POSITIONING: ANTI-ROLL: STABILIZER: N

BERTHING VAN DIMENSIONS: 8X8X20
INSTRUMENT VAN DIMENSIONS: 8X8X20
WET-LAB:

DRY-LAB: AMMUNITION STORAGE: HELO SUPPORT: METEOROLOGICAL OBSERVATIONS: NO

UTILITY BOATS:

1. 14 FOOT RUBBER INFLATABLE

2. 14 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY: 14000 POUNDS NUMBER OF FRAMES: 2

CRANES OR BOOMS

MAX HOIST CAPACITY: 25000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: TRAWL SECONDARY TYPE/USE: DEEP SEA

SLIP-RINGS:

WIRE TYPE: WIRE ROPE
WIRE LENGTH: 45000 FEET
WIRE DIAMETER: 0.563 INCHES SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LEN: 32000 FEET SECONDARY WIRE DIAM: 0.680 INCHES

MAJOR TYPE/USE: HYDROGRAPHIC SECONDARY TYPE/USE: STD 02. MAJOR TYPE/USE: SLIP-RINGS: WIRE ROPE WIRE TYPE: WIRE LENGTH: 25000 FEET 0.250 INCHES WIRE DIAMETER: 03. MAJOR TYPE/USE: CTDSECONDARY TYPE/USE: HYDROGRAPHIC SLIP-RINGS: WIRE TYPE: WIRE ROPE WIRE LENGTH: 33000 FEET

0.322 INCHES

ELECTRONIC EQUIPMENT

WIRE DIAMETER:

VAX - 730 (2)COMPUTERS: FACSIMILE: Y ELECTROMAGNETIC LOG: INERTIAL NAVIGATION: Y RADAR (SURFACE SCAN): N LORAN A: LORAN C: OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: Y SINGLE SIDE BAND: VHF COMMUNICATIONS: N STABLE TABLE: NARROW BEAM: N SEISMIC PROFILING: SIDE SCAN: SOUNDING SYSTEM (SHALLOW): FURUNO SOUNDING SYSTEM (DEEP): EDO,GIFFT

ALSO: INMARSAT

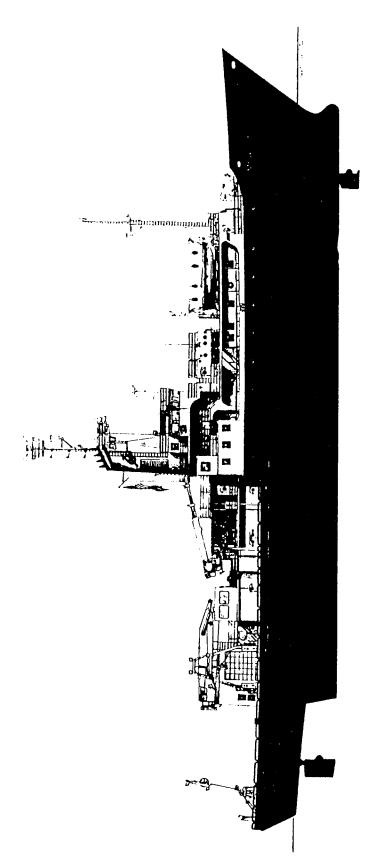
FUEL DETAILS

FUEL CAPACITY: 141000 GALLONS

FUEL TYPE: DIESEL #1/DIESEL #2

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 3400 GAL/24-HRS
DURING AVERAGE OPERATIONS: 2000 GAL/24-HRS
DURING INPORT OPERATIONS: 350 GAL/24-HRS



R/V MELVILLE

Scripps Institution of Oceanography

NEW HORIZON

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

MRS. ROSE M. DUFOUR POC:

POC OFFICE:

SCHEDULER SCRIPPS INSTITUTION OF OCEANOGRAPHY POC OFFICE:
POC ORGANIZATION: POC ADDRESS: UNIVERSITY OF CALIFORNIA SAN DIEGO

LA JOLLA CA 92093-0210 POC CITY/STATE:

COMMERCIAL AREA CODE: 619

534-2841 PHONE:

ADMINISTRATIVE DETAILS

DESIGNATOR:

COLUMBUS ISELIN CLASS:

CALL SIGN (INTERNATIONAL): WKWB UNOLS FLEET:

OCEANOGRAPHIC RESEARCH-GENERAL SHIP TYPE:

SHIP OWNER: UNIVERSITY OF CALIFORNIA AMERICAN BUREAU OF SHIPPING

CERTIFICATION AUTHORITY:

USA FLAG REGISTRY:

HOME PORT: SAN DIEGO CA

OPERATIONS CONTROL:
CONTRACTUAL IMPORTA UNIVERSITY OF CALIFORNIA SAN DIEGO UNIVERSITY OF CALIFORNIA SAN DIEGO

CONTRACTUAL INFORMATION: NONE

9.2/92 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 17 NUMBER OFFICERS: NUMBER IN CREW:

7 BEAUFORT SCALE MAX SEA STATE:

29 DAY(S) ENDURANCE:

FUEL/USCG STABILITY REQUIREMENT LIMITING FACTOR:

ATLANTIC MARINE INC BUILDER:

FORT GEORGE ISLAND FL US WHERE BUILT:

4.2/78 MILLION \$'S IN YEAR INITIAL COST:

'00 DUE DATE:

07 OCT 77 KEEL DATE: 04 MAR 78 LAUNCH DATE: 24 OCT 78 DELIVERY DATE: 25 JAN 79 COMMISSION DATE:

CONVERSION DATE: '00

LAST OVERHAUL: 00 JAN 91 3.0 YEARS MAINTENANCE CYCLE:

END OF LIFE: 2005

UPDATE OF INFORMATION: 01 DEC 91

170.0 FEET LENGTH: MAX BEAM: 36.0 FEET HEIGHT: 72.0 FEET

GROSS TONNAGE: 295
DISPLACEMENT: 1080 TONS DRAUGHT: 12.8 FEET CRUISE SPEED: 10.0 KNOTS
RANGE: 7500 NAUTICAL MILES

MAX SPEED: 12.3 KNOTS MIN SPEED: 0.0 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL

AUXILIARY PROPULSION: BOW THRUSTER

NUMBER OF SHAFTS:

BOW THRUSTER: SCHOTTEL TRAINABLE PROP

ACTIVE RUDDER: DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: Ν

NONE FEET DEEP ANCHOR:

BERTHING VAN DIMENSIONS: 8X8X14
INSTRUMENT VAN DIMENSIONS: 8X8X14

WET-LAB: Y DRY-LAB: AMMUNITION STORAGE: N N HELO SUPPORT: METEOROLOGICAL OBSERVATIONS: YES

UTILITY BOATS:

1. 13 FOOT RUBBER INFLATABLE

2. 14 FOOT BOSTON WHALER

A, U, OR L FRAMES

10000 POUNDS MAX HOIST CAPACITY:

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: NUMBER OF CRANES: 8000 POUNDS

WINCHES:

01. MAJOR TYPE/USE: TRAWL SECONDARY TYPE/USE: DREDGE

SLIP-RINGS:

WIRE TYPE: WIRE ROPE WIRE LENGTH: 30170 FEET WIRE DIAMETER: 0.680 INCHES 02. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE: STD 1 SLIP-RINGS:

WIRE LENGTH:
WIRE DIAMETER:
SECONDARY WIRE ROPE 25150 FEET 0.250 INCHES SECONDARY WIRE TYPE: WIRE ROPE SECONDARY WIRE LEN: 25000 FEET SECONDARY WIRE DIAM: 0.225 INCHES

03. MAJOR TYPE/USE: CTD SECONDARY TYPE/USE: CTD SLIP-RINGS: 1

WIRE TYPE: CONDUCTOR CABLE
WIRE LENGTH: 32810 FEET
WIRE DIAMETER: 0.322 INCHES

ELECTRONIC EQUIPMENT

PC WITH SAILLOOP COMPUTERS:

Y FACSIMILE: Y DOPPLER LOG: INERTIAL NAVIGATION: N RADAR (SURFACE SCAN): Y LORAN A: LORAN C: OMEGA:

SATELLITE NAVIGATION: TRANSIT & GPS

RADIO TELETYPE COMMUNICATION: N Y SINGLE SIDE BAND: VHF COMMUNICATIONS: N STABLE TABLE: N NARROW BEAM: SEISMIC PROFILING: N SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): FURUNO SOUNDING SYSTEM (DEEP): EDO

ALSO: INMARSAT, ADCP, VHF DIRECTION FINDER, CELLULAR TELEPHONE

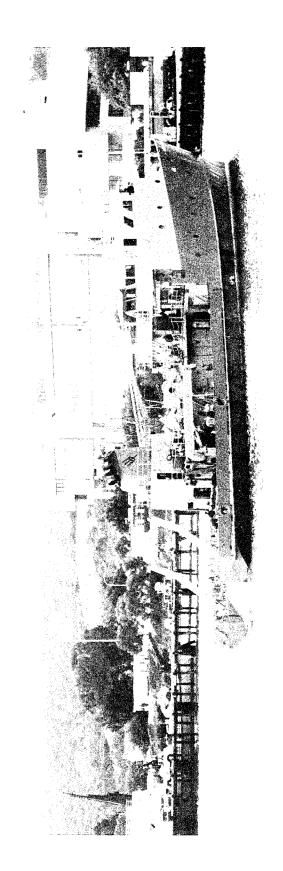
FUEL DETAILS

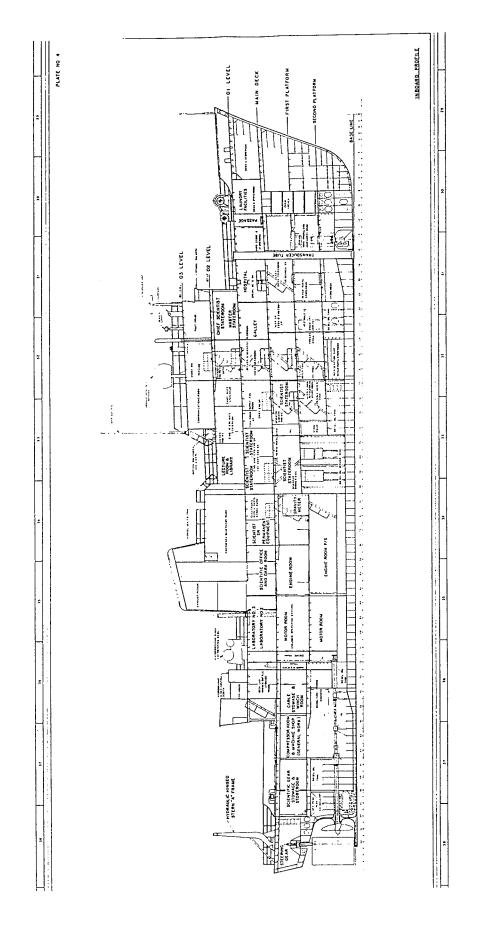
50000 GALLONS FUEL CAPACITY: DIESEL #2 FUEL TYPE:

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 1000 GAL/24-HRS DURING AVERAGE OPERATIONS: 850 GAL/24-HRS 300 GAL/24-HRS DURING INPORT OPERATIONS:

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THOMAS WASHINGTON

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MRS. ROSE M. DUFOUR/CAPT J. WILLIAMS
POC OFFICE: SHIP SCHEDULER/MARINE SUPERINTENDENT
POC ORGANIZATION: SCRIPPS INSTITUTION OF OCEANOGRAPHY
POC ADDRESS: UNIVERSITY OF CALLEDDALA SAN DIFCO

POC ADDRESS: UNIVERSITY OF CALIFORNIA SAN DIEGO

POC CITY/STATE: LA JOLLA CA 92093-0210

COMMERCIAL AREA CODE: 619

PHONE: 534-2841/534-1643

ADMINISTRATIVE DETAILS

DESIGNATOR: AGOR 10

CLASS: ROBERT D CONRAD/AGOR 3

CALL SIGN (INTERNATIONAL): KGWU FLEET: UNOLS

SHIP TYPE: OCEAN RESEARCH-GENERAL

SHIP OWNER: USN

CERTIFICATION AUTHORITY: US COAST GUARD-ABS

FLAG REGISTRY: USA

HOME PORT: SAN DIEGO CA

TECHNICAL SPONSOR: UNIVERSITY OF CALIFORNIA SAN DIEGO OPERATIONS CONTROL: UNIVERSITY OF CALIFORNIA SAN DIEGO CONTRACTUAL INFORMATION: ONR CODE 611 LEASE TO EXPIRE OCT 93

CON # - N00014-85-L-0737

OPERATING COST/DAY: 11.0/92 THOUSAND \$'S IN YR

SCIENTIFIC COMPLEMENT: 22 NUMBER OFFICERS: 8 NUMBER IN CREW: 15

MAX SEA STATE: - BEAUFORT SCALE

ENDURANCE: 36 DAY(S)

LIMITING FACTOR: FUEL

BUILDER: MARINETTE MARINE CORPORATION

WHERE BUILT: MARINETTE WI USA

INITIAL COST:

DUE DATE: '00
KEEL DATE: 12 SEP 63
LAUNCH DATE: 01 AUG 64
DELIVERY DATE: 17 SEP 65

COMMISSION DATE: '65 CONVERSION DATE: '00

LAST OVERHAUL: 24 OCT 90 MAINTENANCE CYCLE: 2.0 YEARS

END OF LIFE: 1992

UPDATE OF INFORMATION: 01 DEC 91

209.0 FEET LENGTH: MAX BEAM: 39.5 FEET HEIGHT: 78.0 FEET

GROSS TONNAGE: 1151
DISPLACEMENT: 1490 TONS 16.7 FEET DRAUGHT: CRUISE SPEED: 10.0 KNOTS

8200 NAUTICAL MILES RANGE:

11.5 KNOTS MAX SPEED: MIN SPEED: 0.0 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL ELECTRIC

AUXILIARY PROPULSION: DIESEL

NUMBER OF SHAFTS: 1

BOW THRUSTER: RETRACTABLE/360 DEG TRAINABLE

ACTIVE RUDDER: N DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER:

DEEP ANCHOR: NONE FEET

BERTHING VAN DIMENSIONS: 8X8X20 INSTRUMENT VAN DIMENSIONS: 8X8X20

WET-LAB: DRY-LAB: AMMUNITION STORAGE: Y HELO SUPPORT: METEOROLOGICAL OBSERVATIONS: YES

UTILITY BOATS:

1. 14 FOOT BOSTON WHALER

2. 35 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 10000 POUNDS

NUMBER OF FRAMES: 1

CRANES OR BOOMS

MAX HOIST CAPACITY: 16000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: DEEP SEA SECONDARY TYPE/USE: OCEANOGRAPHIC

SLIP-RINGS:

WIRE TYPE: WIRE ROPE WIRE LENGTH: 45000 FEET WIRE DIAMETER: 0.563 INCHES SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LEN: 32800 FEET SECONDARY WIRE DIAM: 0.680 INCHES 02. MAJOR TYPE/USE: HYDROGRAPHIC SECONDARY TYPE/USE: STD

SLIP-RINGS: 1

WIRE ROPE WIRE TYPE: WIRE LENGTH: 25000 FEET 0.250 INCHES WIRE DIAMETER: SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LEN: 25000 FEET SECONDARY WIRE DIAM: 0.225 INCHES

03. MAJOR TYPE/USE: STD

SECONDARY TYPE/USE: HYDROGRAPHIC

SLIP-RINGS:

WIRE TYPE:

CONDUCTOR CABLE 33000 FEET WIRE LENGTH: 0.322 INCHES WIRE DIAMETER:

ELECTRONIC EQUIPMENT

COMPUTERS: VAX730(2); MASSCOMP FACSIMILE: ELECTROMAGNETIC LOG: Y INERTIAL NAVIGATION: N RADAR (SURFACE SCAN): Y LORAN A: N LORAN C: Y Ν OMEGA: Y SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: Y Y SINGLE SIDE BAND: VHF COMMUNICATIONS: Y STABLE TABLE: NARROW BEAM: SEISMIC PROFILING: SIDE SCAN: N SOUNDING SYSTEM (SHALLOW): FURUNO SOUNDING SYSTEM (DEEP): SEABEAM, EDO

FUEL DETAILS

66000 GALLONS FUEL CAPACITY: FUEL TYPE: DIESEL #2

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 2000 GAL/24-HRS DURING AVERAGE OPERATIONS: 1700 GAL/24-HRS DURING INPORT OPERATIONS: 300 GAL/24-HRS

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R/V THOMAS WASHINGTON

FLIP

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

DR. FREDERICK FISHER POC: POC:
POC OFFICE:
POC ORGANIZATION: ASSOCIATE DIRECTOR

MARINE PHYSICAL LABORATORY

SCRIPPS INSTITUTE OF OCEANOGRAPHY POC ADDRESS:

LA JOLLA CA 92093-0701 POC CITY/STATE:

COMMERCIAL AREA CODE: 619

534-1796 PHONE:

ADMINISTRATIVE DETAILS

DESIGNATOR:

RESEARCH PLATFORM CLASS:

CALL SIGN (INTERNATIONAL): WI7115 UNOLS FLEET:

FLOATING INSTRUMENT PLATFORM SHIP TYPE:

SHIP OWNER: USN CERTIFICATION AUTHORITY: USN FLAG REGISTRY: USA

SAN DIEGO CA HOME PORT:

UNIVERSITY OF CALIFORNIA SAN DIEGO TECHNICAL SPONSOR: OPERATIONS CONTROL: SCRIPPS MARINE PHYSICAL LABORATORY

CONTRACTUAL INFORMATION: ONR CODE 122

1.5/89 THOUSAND \$'S IN YR OPERATING COST/DAY:

11 SCIENTIFIC COMPLEMENT: NUMBER OFFICERS: NUMBER IN CREW:

7 BEAUFORT SCALE MAX SEA STATE:

30 DAY(S) ENDURANCE: LIMITING FACTOR: FOOD/FUEL

GUNDERSON BROTHERS SHIPYARD BUILDER: PORTLAND OR USA WHERE BUILT:

.850/62 MILLION \$'S IN YEAR INITIAL COST:

100 DUE DATE: '00 KEEL DATE:

22 JUN 62 LAUNCH DATE: 06 AUG 62 DELIVERY DATE:

'00 COMMISSION DATE: '00 CONVERSION DATE:

00 AUG 90 LAST OVERHAUL: 1.0 YEARS MAINTENANCE CYCLE:

2002 END OF LIFE:

UPDATE OF INFORMATION: 01 NOV 90

358.0 FEET LENGTH: MAX BEAM: 26.0 FEET HEIGHT: 37.0 FEET

GROSS TONNAGE:

DISPLACEMENT: 700 TONS
DRAUGHT: 12.5 FEET DRAUGHT: 12.5 FEET
CRUISE SPEED: - KNOTS

RANGE: - NAUTICAL MILES
MAX SPEED: - KNOTS
MIN SPEED: - KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: TOWED, 5-10 KTS

AUXILIARY PROPULSION: NONE NUMBER OF SHAFTS: 0

BOW THRUSTER: HYD. 60HP

ACTIVE RUDDER: N DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: N

DEEP ANCHOR: NONE FEET

DEEP ANCHOR:

BERTHING VAN DIMENSIONS:

INSTRUMENT VAN DIMENSIONS:

NONE WET-LAB: DRY-LAB: N AMMUNITION STORAGE: N HELO SUPPORT: N METEOROLOGICAL OBSERVATIONS: NO

UTILITY BOATS:

1. 13 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY: - POUNDS

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: POUNDS

NUMBER OF BOOMS:

WINCHES:

O1. MAJOR TYPE/USE: DEEP SEA

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE TYPE: CONDUCTOR CABLE

WIRE LENGTH: 20000 FEET WIRE DIAMETER: 0.348 INCHES

ELECTRONIC EQUIPMENT

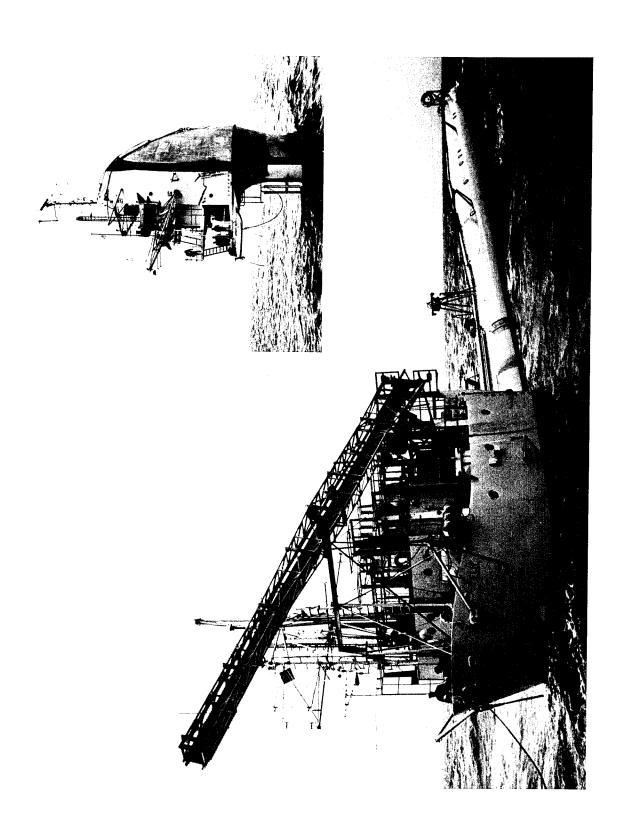
COMPUTERS:	COMPAQ PC
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	NONE
SOUNDING SYSTEM (DEEP):	UQN-1D

FUEL DETAILS

FUEL	CAPACITY:	3500	GALLONS	
FUEL	TYPE:		DIESEL	#1

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: - GAL/24-HRS DURING AVERAGE OPERATIONS: 75 GAL/24-HRS DURING INPORT OPERATIONS: 0 GAL/24-HRS



ORB

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: DR. FREDERICK FISHER POC:

POC OFFICE:

ASSOCIATE DIRECTOR

POC ORGANIZATION:

MARINE PHYSICAL LABORATORY

POC ADDRESS:
POC CITY/STATE: SCRIPPS INSTITUTE OF OCEANOGRAPHY

LA JOLLA CA 92093-0701

COMMERCIAL AREA CODE: 619

534-1796 PHONE:

ADMINISTRATIVE DETAILS

DESIGNATOR:

RESEARCH PLATFORM CLASS:

CALL SIGN (INTERNATIONAL): WS6315 UNOLS FLEET:

OCEAN RESEARCH BUOY SHIP TYPE:

USN SHIP OWNER: CERTIFICATION AUTHORITY: USN FLAG REGISTRY: USA

HOME PORT: SAN DIEGO CA

UNIVERSITY OF CALIFORNIA SAN DIEGO TECHNICAL SPONSOR: OPERATIONS CONTROL: SCRIPPS MARINE PHYSICAL LABORATORY

CONTRACTUAL INFORMATION: ONR CODE 122

1.5/89 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 15 NUMBER OFFICERS: 1 NUMBER IN CREW:

5 BEAUFORT SCALE MAX SEA STATE:

ENDURANCE: 30 DAY(S)

LIMITING FACTOR: FOOD

CALIFORNIA STEEL FABRICATORS BUILDER:

SAN DIEGO CA USA WHERE BUILT:

.250/67 MILLION \$'S IN YEAR INITIAL COST:

00' DUE DATE: KEEL DATE: 00 JUL 67 LAUNCH DATE: 01 DEC 67 00 DEC 67 DELIVERY DATE:

'00 COMMISSION DATE: '00 CONVERSION DATE:

LAST OVERHAUL: 00 JUN 86 4.0 YEARS MAINTENANCE CYCLE:

END OF LIFE: 2018

UPDATE OF INFORMATION: 01 NOV 90

69.0 FEET LENGTH: MAX BEAM: 45.0 FEET **HEIGHT:** 28.5 FEET

GROSS TONNAGE: -

DISPLACEMENT: 330 TONS
DRAUGHT: 5.0 FEET CRUISE SPEED: - KNOTS

RANGE: - NAUTICAL MILES
MAX SPEED: - KNOTS
MIN SPEED: - KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: TOWED, 3-6 KTS

AUXILIARY PROPULSION: NONE NUMBER OF SHAFTS: BOW THRUSTER: NONE ACTIVE RUDDER: N DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: N

DEEP ANCHOR: NONE FEET

BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: NONE WET-LAB: N DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT: N METEOROLOGICAL OBSERVATIONS: NO

UTILITY BOATS:

1. 17 FOOT BOSTON WHALER.

A, U, OR L FRAMES

MAX HOIST CAPACITY: - POUNDS

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: POUNDS

NUMBER OF CRANES: 5 WINCHES: N

ELECTRONIC EQUIPMENT

COMPUTERS: NONE N FACSIMILE: ELECTROMAGNETIC LOG: N INERTIAL NAVIGATION: N RADAR (SURFACE SCAN): Y LORAN A: N LORAN C: Y OMEGA: Y SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: N SINGLE SIDE BAND: Y VHF COMMUNICATIONS: STABLE TABLE: N NARROW BEAM: N SEISMIC PROFILING: SIDE SCAN: SOUNDING SYSTEM (SHALLOW): NONE SOUNDING SYSTEM (DEEP): UQN-1D

FUEL DETAILS

FUEL CAPACITY: 5500 GALLONS
FUEL TYPE: DIESEL #1

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: - GAL/24-HRS
DURING AVERAGE OPERATIONS: 100 GAL/24-HRS
DURING INPORT OPERATIONS: 0 GAL/24-HRS



R/P ORB

ROBERT GORDON SPROUL

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MRS. ROSE M. DUFOUR

POC OFFICE: SCHEDULER

POC OFFICE: SCHEDULER

POC ORGANIZATION: SCRIPPS INSTITUTION OF OCEANOGRAPHY

POC ADDRESS: UNIVERSITY OF CALIFORNIA SAN DIEGO

POC CITY/STATE: LA JOLLA CA 92093-0210

COMMERCIAL AREA CODE: 619

PHONE: 534-2841

ADMINISTRATIVE DETAILS

DESIGNATOR: RV

CLASS: GULF COAST WORK BOAT

CALL SIGN (INTERNATIONAL): WSQ2674 FLEET: UNOLS

SHIP TYPE: OCEAN RESEARCH - GENERAL SHIP OWNER: UNIVERSITY OF CALIFORNIA

CERTIFICATION AUTHORITY: ABS FLAG REGISTRY: USA

HOME PORT: SAN DIEGO CA

TECHNICAL SPONSOR: UNIVERSITY OF CALIFORNIA SAN DIEGO OPERATIONS CONTROL: UNIVERSITY OF CALIFORNIA SAN DIEGO

CONTRACTUAL INFORMATION: NONE

OPERATING COST/DAY: 4.6/92 THOUSAND \$'S IN YR

SCIENTIFIC COMPLEMENT: 12
NUMBER OFFICERS: 0
NUMBER IN CREW: 5

MAX SEA STATE: 7 BEAUFORT SCALE (OPS ON STATION)

ENDURANCE: 14 DAY(S)
LIMITING FACTOR: FRESH WATER

BUILDER: STEINER FABRICATORS INC.

WHERE BUILT: BAYOU LA BATRE AL

INITIAL COST: 1.3/81 MILLION \$'S IN YEAR

DUE DATE: '00
KEEL DATE: '00
LAUNCH DATE: '00
DELIVERY DATE: '81
COMMISSION DATE: '00

CONVERSION DATE: 00 AUG 84
LAST OVERHAUL: 14 JUN 90
MAINTENANCE CYCLE: 3.0 YEARS

END OF LIFE: 2001

UPDATE OF INFORMATION: 01 DEC 91

LENGTH:
MAX BEAM:
HEIGHT: LENGTH: 125.0 FEET 32.0 FEET 53.0 FEET

GROSS TONNAGE: 85

DISPLACEMENT: 524 TONS DRAUGHT: 8.6 FEET

CRUISE SPEED: 9.5 KNOTS
RANGE: 3800 NAUTICAL MILES
MAX SPEED: 10.0 KNOTS
MIN SPEED: 2.0 KNOTS

ENGINEERING/DECK EOUIPMENT

MAIN PROPULSION: DIESEL GEARED

AUXILIARY PROPULSION: NONE NUMBER OF SHAFTS: 2

BOW THRUSTER: WHITEGILL

ACTIVE RUDDER: DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: N

BERTHING VAN DIMENSIONS: 8X8X14 INSTRUMENT VAN DIMENSIONS: 10X8X30

WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT: N

METEOROLOGICAL OBSERVATIONS: BAROMETERS, WIND GUAGES, SLING

UTILITY BOATS: PSYCHROMETER

1. 14 FOOT BOSTON WHALER

2. 12 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 6500 POUNDS

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 2500 POUNDS NUMBER OF CRANES: 1

WINCHES:

01. MAJOR TYPE/USE: TRAWL SECONDARY TYPE/USE: UNKNOWN

> SLIP-RINGS: N

WIRE TYPE: WIRE ROPE WIRE LENGTH: WIRE DIAMETER:
02. MAJOR TYPE/USE:
SECONDARY 14000 FEET 0.375 INCHES HYDROGRAPHIC

SECONDARY TYPE/USE: UNKNOWN

SLIP-RINGS: N

WIRE TYPE: WIRE ROPE WIRE LENGTH: 14000 FEET WIRE DIAMETER: 0.250 INCHES 03. MAJOR TYPE/USE: CTD SECONDARY TYPE/USE: UNKNOWN

SLIP-RINGS: 1
WIRE TYPE: CONDUCTOR CABLE
WIRE LENGTH: 18000 FEET
WIRE DIAMETER: 0.322 INCHES
04. MAJOR TYPE/USE: CTD

SECONDARY TYPE/USE: CTD SLIP-RINGS:

WIRE TYPE: CONDUCTOR CABLE WIRE LENGTH: 29400 FEET WIRE DIAMETER: 0.225 INCHES

ELECTRONIC EQUIPMENT

NONE COMPUTERS: FACSIMILE: ELECTROMAGNETIC LOG: INERTIAL NAVIGATION: RADAR (SURFACE SCAN): Y LORAN A: Y LORAN C: OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: N SINGLE SIDE BAND: Y VHF COMMUNICATIONS: STABLE TABLE: N NARROW BEAM: SEISMIC PROFILING:

SIDE SCAN:

SOUNDING SYSTEM (SHALLOW):

SOUNDING SYSTEM (DEEP):

GDR - 12KHZ

FUEL DETAILS

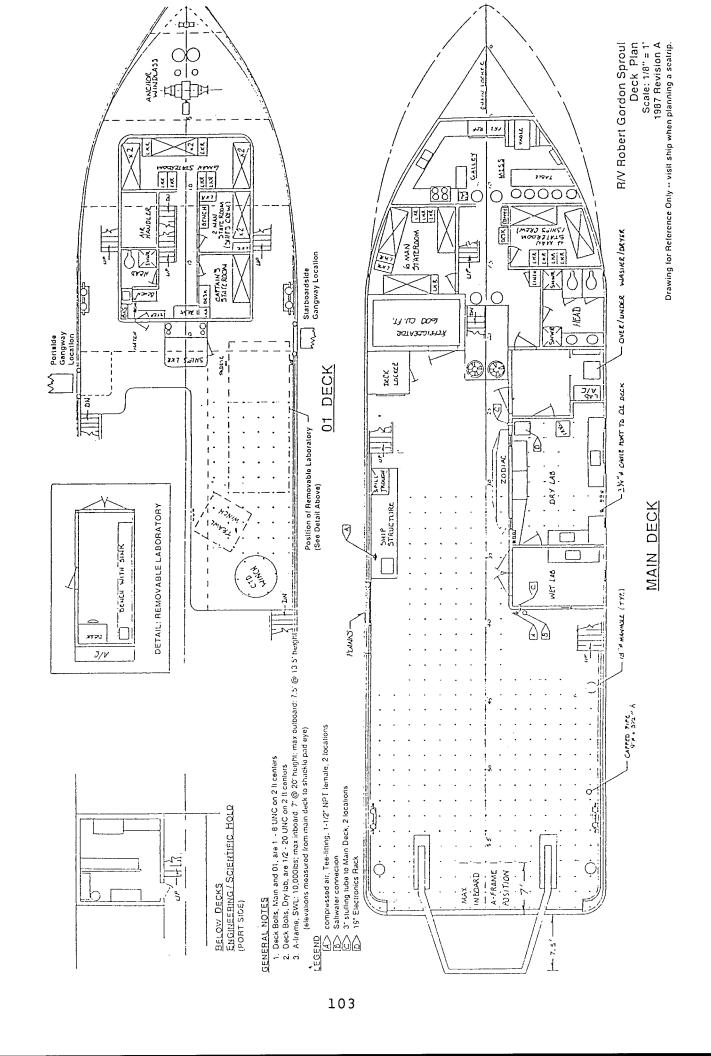
24800 GALLONS FUEL CAPACITY: DIESEL #2 FUEL TYPE:

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 1200 GAL/24-HRS DURING AVERAGE OPERATIONS: 740 GAL/24-HRS
DURING INPORT OPERATIONS: 50 GAL/24-HRS

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R/V ROBERT GORDON SPROUL



BLUE FIN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. LEE H. KNIGHT

POC OFFICE:

POC ORGANIZATION: SKIDAWAY INSTITUTE OF OCEANOGRAPHY

POC ADDRESS: PO BOX 13687

POC CITY/STATE: SAVANNAH GA 31416-0687

COMMERCIAL AREA CODE: 912

PHONE: 598-2486

ADMINISTRATIVE DETAILS

DESIGNATOR:

TRAWLER YACHT CLASS:

CALL SIGN (INTERNATIONAL):

FLEET: UNOLS

SHIP TYPE:

UNIVERSITY SYSTEM OF GEORGIA SHIP OWNER:

CERTIFICATION AUTHORITY: US COAST GUARD

FLAG REGISTRY: USA

SAVANNAH GA HOME PORT:

OPERATIONS CONTROL: SKIDAWAY INSTITUTE OF OCEANOGRAPHY SKIDAWAY INSTITUTE OF OCEANOGRAPHY

CONTRACTUAL INFORMATION: NONE

2.0/90 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: NUMBER OFFICERS: 2 NUMBER IN CREW:

4 BEAUFORT SCALE MAX SEA STATE:

7 DAY(S) ENDURANCE:

WATER-ACCOMMODATIONS LIMITING FACTOR:

XNIDIES BUILDER:

WHERE BUILT: ST.AUGUSTINE FL USA

INITIAL COST:

'00 DUE DATE: '00 KEEL DATE: '72 LAUNCH DATE: '72 DELIVERY DATE: COMMISSION DATE: '00 175 CONVERSION DATE: '81 LAST OVERHAUL:

MAINTENANCE CYCLE: YEARS

1996 END OF LIFE:

UPDATE OF INFORMATION: 26 NOV 91

72.0 FEET 20.0 FEET LENGTH: MAX BEAM: HEIGHT: 60.0 FEET

GROSS TONNAGE: 86

DISPLACEMENT: 132 TONS 8.5 FEET DRAUGHT: CRUISE SPEED: 9.0 KNOTS

RANGE: 1800 NAUTICAL MILES 9.0 KNOTS

MAX SPEED: MIN SPEED: 0.5 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL HYDRAUL.

NONE AUXILIARY PROPULSION: NUMBER OF SHAFTS: BOW THRUSTER: NO ACTIVE RUDDER: N DYNAMIC POSITIONING: N ANTI-ROLL: STABILIZER:

BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: 8X8X10
WET-LAB:

DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT: METEOROLOGICAL OBSERVATIONS: NO

A, U, OR L FRAMES

UTILITY BOATS:

5000 POUNDS MAX HOIST CAPACITY:

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 2500 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: HYDROGRAPHIC SECONDARY TYPE/USE: HYDROGRAPHIC

SLIP-RINGS:

WIRE ROPE WIRE TYPE: WIRE LENGTH: WIRE LENGTH: 2000 FEET WIRE DIAMETER: 0.219 INCHES 02. MAJOR TYPE/USE: TRAWL

SECONDARY TYPE/USE: CORING

SLIP-RINGS: N

WIRE TYPE: WIRE LENGTH: WIRE ROPE 6000 FEET 0.500 INCHES WIRE DIAMETER:

OCEANOGRAPHIC 03. MAJOR TYPE/USE:

SECONDARY TYPE/USE:

N SLIP-RINGS:

WIRE ROPE WIRE TYPE: WIRE LENGTH: 5000 FEET 0.250 INCHES WIRE DIAMETER:

04. MAJOR TYPE/USE: ANCHOR

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE TYPE: WIRE ROPE WIRE LENGTH: 600 FEET WIRE DIAMETER: 0.562 INCHES

ELECTRONIC EQUIPMENT

NONE COMPUTERS: FACSIMILE: ELECTROMAGNETIC LOG: N N INERTIAL NAVIGATION: RADAR (SURFACE SCAN): LORAN A: LORAN C: OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: N Y SINGLE SIDE BAND: Y VHF COMMUNICATIONS: STABLE TABLE: NARROW BEAM: SEISMIC PROFILING:

N RAYTHEON SIMRAD SOUNDING SYSTEM (SHALLOW): SOUNDING SYSTEM (DEEP):

FUEL DETAILS

SIDE SCAN:

5500 GALLONS FUEL CAPACITY: DIESEL #2 FUEL TYPE:

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 840 GAL/24-HRS DURING AVERAGE OPERATIONS: 600 GAL/24-HRS
DURING INPORT OPERATIONS: 0 GAL/24-HRS

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JOHN V. VICKERS

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:

MR DON NEWMAN

POC OFFICE:

MANAGER MARINE SUPPORT FACILITY

POC OFFICE: MANAGER MARINE SOFFOR TREEFIT
POC ORGANIZATION: INSTITUTE FOR MARINE & COASTAL STUDIES, USC

POC ADDRESS:

820 SOUTH SEASIDE AVENUE

POC CITY/STATE:

TERMINAL ISLAND CA 90731

COMMERCIAL AREA CODE: 213

PHONE:

830-4570

ADMINISTRATIVE DETAILS

DESIGNATOR:

CLASS:

TUNA SEINER

CALL SIGN (INTERNATIONAL): WP8613

FLEET:

UNOLS

SHIP TYPE:

OCEAN RESEARCH-GENERAL

SHIP OWNER:

UNIVERSITY OF SOUTHERN CALIFORNIA

CERTIFICATION AUTHORITY: US COAST GUARD/ABS

FLAG REGISTRY:

USA

HOME PORT:

LOS ANGELES CA

TECHNICAL SPONSOR: OPERATIONS CONTROL:

UNIVERSITY OF SOUTHERN CALIFORNIA UNIVERSITY OF SOUTHERN CALIFORNIA

CONTRACTUAL INFORMATION:

NONE

OPERATING COST/DAY:

10.0/90 THOUSAND \$'S IN YR

SCIENTIFIC COMPLEMENT: NUMBER OFFICERS:

20 6

NUMBER IN CREW:

6 BEAUFORT SCALE

MAX SEA STATE:

75 DAY(S)

ENDURANCE:

STORES

LIMITING FACTOR:

CAMPBELL SHIP

BUILDER:

SAN DIEGO CA USA

WHERE BUILT:

5.5/73 MILLION \$'S IN YEAR

INITIAL COST: DUE DATE:

'00 '00 173

KEEL DATE: LAUNCH DATE:

'73

DELIVERY DATE: COMMISSION DATE:

173 190 190

LAST OVERHAUL: MAINTENANCE CYCLE:

CONVERSION DATE:

2.0 YEARS

END OF LIFE:

2020

UPDATE OF INFORMATION:

01 DEC 91

220.0 FEET LENGTH: MAX BEAM: HEIGHT: 38.0 FEET 70.0 FEET

GROSS TONNAGE: 968
DISPLACEMENT: 1750 TONS DRAUGHT: 14.8 FEET
CRUISE SPEED: 13.0 KNOTS
RANGE: 18000 NAUTICAL MILES
MAX SPEED: 17.0 KNOTS
MIN SPEED: 00.1 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED
AUXILIARY PROPULSION: 550HP OMNITHRUSTER

NUMBER OF SHAFTS: 1 Y BOW THRUSTER: ACTIVE RUDDER: N DYNAMIC POSITIONING: ANTI-ROLL: STABILIZER:

DEEP ANCHOR: 1500 I BERTHING VAN DIMENSIONS: 8X8X20 INSTRUMENT VAN DIMENSIONS: 8X8X20 DEEP ANCHOR: 1500 FEET

WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: HELO SUPPORT: N

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 18 FOOT SURVEY LAUNCH

2. 14 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

U, OR L FRAMES
MAX HOIST CAPACITY: 30000 POUNDS
TO BE BRAMES: 2

CRANES OR BOOMS

MAX HOIST CAPACITY: 36000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE TYPE: WIRE ROPE
WIRE LENGTH: 20000 FEET
WIRE DIAMETER: 0.187 INCHES
02. MAJOR TYPE/USE: CORING
SECONDARY TYPE/USE: TRAWL

SLIP-RINGS:

WIRE ROPE 20000 FEET WIRE TYPE: WIRE LENGTH: WIRE DIAMETER: 0.500 INCHES -----

ELECTRONIC EQUIPMENT

COMPUTERS:	Y
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	Y
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	Y
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	YES
SOUNDING SYSTEM (DEEP):	YES

FUEL DETAILS

FUEL CAPACITY: 121000 GALLONS
FUEL TYPE: DIESEL #2

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 2500 GAL/24-HRS DURING AVERAGE OPERATIONS: 1500 GAL/24-HRS DURING INPORT OPERATIONS: 300 GAL/24-HRS

R/V JOHN V. VICKERS

GYRE

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

MR. DEAN E. LETZRING POC:

POC OFFICE: MANAGER MARINE OPERATIONS

POC ORGANIZATION: TEXAS A&M UNIVERSITY

POC ADDRESS: P.O. BOX 1675

GALVESTON, TX 77553 POC CITY/STATE:

COMMERCIAL AREA CODE: 409

740-4469 PHONE:

ADMINISTRATIVE DETAILS

AGOR 21 DESIGNATOR:

AGOR 21 CLASS CLASS:

CALL SIGN (INTERNATIONAL): KJCL UNOLS FLEET:

SHIP TYPE: OCEAN RESEARCH - GENERAL

SHIP OWNER: USN

CERTIFICATION AUTHORITY: AMERICAN BUREAU OF SHIPPING

USA FLAG REGISTRY:

HOME PORT: GALVESTON TX

TECHNICAL SPONSOR: TEXAS A&M RESEARCH FOUNDATION
OPERATIONS CONTROL: TEXAS A&M UNIVERSITY
CONTRACTUAL INFORMATION: AVAILABLE FOR REIMBURSABLE LEASE. CALL POC

6.5/90 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 23 NUMBER OFFICERS: 5 NUMBER IN CREW:

MAX SEA STATE: 8 BEAUFORT SCALE

ENDURANCE: 60 DAY(S)

FOOD LIMITING FACTOR:

HALTER MARINE SERVICES INC BUILDER:

WHERE BUILT: NEW ORLEANS LA USA

3.1/73 MILLION \$'S IN YEAR INITIAL COST:

'00 DUE DATE: KEEL DATE: '73

LAUNCH DATE: 25 MAY 73 DELIVERY DATE: 14 NOV 73

'00 COMMISSION DATE: CONVERSION DATE: 180

LAST OVERHAUL: 00 SEP 88 MAINTENANCE CYCLE: 2.0 YEARS

END OF LIFE: 2003

UPDATE OF INFORMATION: 27 APR 90

182.0 FEET MAX BEAM: LENGTH: 36.0 FEET HEIGHT: 42.0 FEET

GROSS TONNAGE: 292
DISPLACEMENT: 946 TONS
DRAUGHT: 12.5 FEET
CRUISE SPEED: 9.5 KNOTS
RANGE: 8000 NAUTIO

8000 NAUTICAL MILES

11.8 KNOTS MAX SPEED: MAX SPEED: 11.8 KNOTS MIN SPEED: 0.0 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED NO

AUXILIARY PROPULSION: NUMBER OF SHAFTS:

BOW THRUSTER: ELECTRIC/HYDRAULIC

ACTIVE RUDDER: N DYNAMIC POSITIONING: ANTI-ROLL: N STABILIZER: N

DEEP ANCHOR: 10000 FEET

BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: 8X8X20 WET-LAB: DRY-LAB: N AMMUNITION STORAGE:

HELO SUPPORT: METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 13 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 30000 POUNDS NUMBER OF FRAMES: 2

CRANES OR BOOMS

MAX HOIST CAPACITY: 7000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: HYDROGRAPHIC SECONDARY TYPE/USE: CTD

SLIP-RINGS:

WIRE TYPE:

WIRE LENGTH:

WIRE DIAMETER:

0.322 INCHES

O2. MAJOR TYPE/USE:

SECONDARY TYPE/USE:

HYDROGRAPHIC

SLIP-RINGS: WIRE TYPE: WIRE LENGTH:
WIRE DIAMETER:

CONDUCTOR CABLE
30000 FEET
0 322

03. MAJOR TYPE/USE: TRAWL

SECONDARY TYPE/USE:

N SLIP-RINGS:

WIRE ROPE WIRE TYPE: WIRE LENGTH: 30000 FEET 0.500 INCHES WIRE DIAMETER:

ELECTRONIC EQUIPMENT

HP 600A SAILLOOP COMPUTERS: Y FACSIMILE: Y ELECTROMAGNETIC LOG: INERTIAL NAVIGATION: RADAR (SURFACE SCAN): Y LORAN A: LORAN C: Y OMEGA: SATELLITE NAVIGATION: Y RADIO TELETYPE COMMUNICATION: Y SINGLE SIDE BAND: VHF COMMUNICATIONS: STABLE TABLE: N NARROW BEAM: SEISMIC PROFILING: SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): RAYTHEON SOUNDING SYSTEM (DEEP): RAYTHEON

FUEL DETAILS

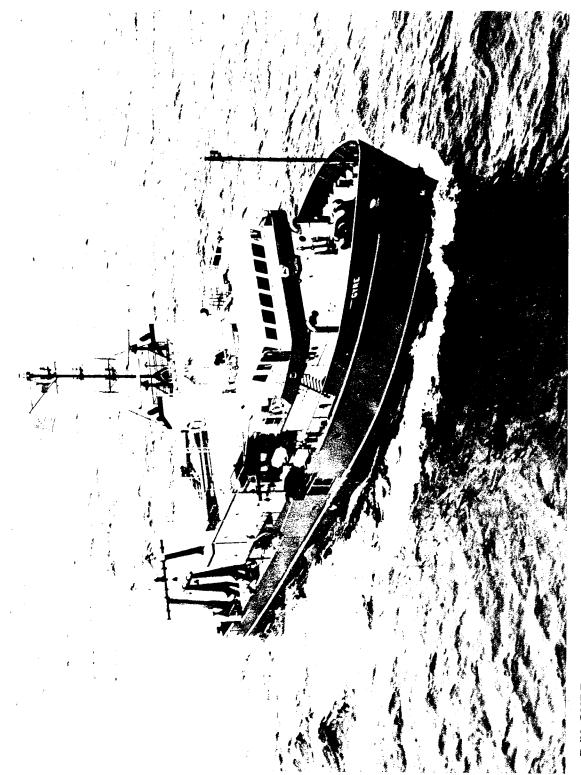
89000 GALLONS FUEL CAPACITY:

DIESEL FUEL MARINE FUEL TYPE:

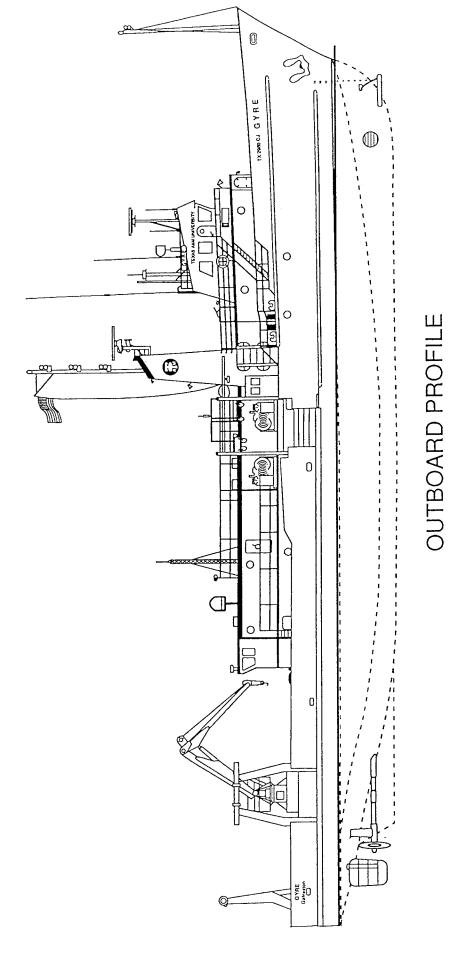
FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 1600 GAL/24-HRS
DURING AVERAGE OPERATIONS: 1400 GAL/24-HRS
DURING INPORT OPERATIONS: 400 GAL/24-HRS

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R/V GYRE



R/V GYRE

DECK PLANS

LONGHORN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

MR. JOHN H. THOMPSON POC:

POC OFFICE: ASSOCIATE DIRECTOR FOR ADM POC ORGANIZATION: MARINE SCIENCE LABORATORY ASSOCIATE DIRECTOR FOR ADMINISTRATION

UNIVERSITY OF TEXAS POC ADDRESS: PORT ARANSAS TX 78373 POC CITY/STATE:

COMMERCIAL AREA CODE: 512

749-6760 PHONE:

ADMINISTRATIVE DETAILS

RV DESIGNATOR:

TRAWLER CLASS: CALL SIGN (INTERNATIONAL): WZL3621

UNOLS FLEET:

OCEAN RESEARCH-GENERAL SHIP TYPE: UNIVERSITY OF TEXAS SHIP OWNER:

CERTIFICATION AUTHORITY: TEXAS PARKS & WILDLIFE

FLAG REGISTRY: USA

PORT ARANSAS TX HOME PORT:

UNIVERSITY OF TEXAS TECHNICAL SPONSOR:

OPERATIONS CONTROL: U.TEX.-PORT ARANSAS MARINE LAB

CONTRACTUAL INFORMATION: NONE

2.0/87 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 10 NUMBER OFFICERS: NUMBER IN CREW:

3 BEAUFORT SCALE MAX SEA STATE:

ENDURANCE: 18 DAY(S)

LIMITING FACTOR: WATER-REFRIG. STORES

ALLIED SHIPYARD BUILDER: LAROSE, LA USA WHERE BUILT:

INITIAL COST: '00 DUE DATE: KEEL DATE: '00 '71 LAUNCH DATE: '71 DELIVERY DATE: '71 COMMISSION DATE: '86 CONVERSION DATE:

1.6 YEARS MAINTENANCE CYCLE:

2000 END OF LIFE:

LAST OVERHAUL:

27 APR 90 UPDATE OF INFORMATION:

'86

LENGTH: 105.0 FEET
MAX BEAM: 24.2 FEET
HEIGHT: - FFFT

GROSS TONNAGE: 175
DISPLACEMENT: 210 TONS DRAUGHT: 7.3 FEET
CRUISE SPEED: 9.0 KNOTS
RANGE: 2000 NAUTICAL MILES
MAX SPEED: 9.5 KNOTS
MIN SPEED: 1.5 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL AUXILIARY PROPULSION: NO NUMBER OF SHAFTS:

HYDRAULIC, TUNNEL

BOW THRUSTER:
ACTIVE RUDDER: DYNAMIC POSITIONING: N ANTI-ROLL: STABILIZER: N

DEEP ANCHOR: NONE FEET

DEEP ANCHOR: NONE F BERTHING VAN DIMENSIONS: 8X8X20 INSTRUMENT VAN DIMENSIONS: 8X8X20

WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT: N METEOROLOGICAL OBSERVATIONS: NO

UTILITY BOATS:

1. 15 FOOT RUBBER INFLATABLE

2. 16 FOOT UTILITY

A, U, OR L FRAMES

MAX HOIST CAPACITY: 6000 POUNDS

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 2500 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: TRAWL

SECONDARY TYPE/USE:

SLIP-RINGS: N
WIRE TYPE: WIRE ROPE
WIRE LENGTH: 4000 FEET
WIRE DIAMETER: 0.500 INCHES
02. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE: UTILITY

SLIP-RINGS: N
WIRE TYPE: WIRE ROPE
WIRE LENGTH: 9800 FEET WIRE DIAMETER: 0.250 INCHES 03. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE TYPE: CONDUCTOR CABLE

WIRE LENGTH: 9700 FEET WIRE DIAMETER: 0.219 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	IBM-PC
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	N
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	MORROW
COUNTRIES CHOMPLY (DEED)	THEFT

SOUNDING SYSTEM (DEEP): FURUNO

FUEL DETAILS

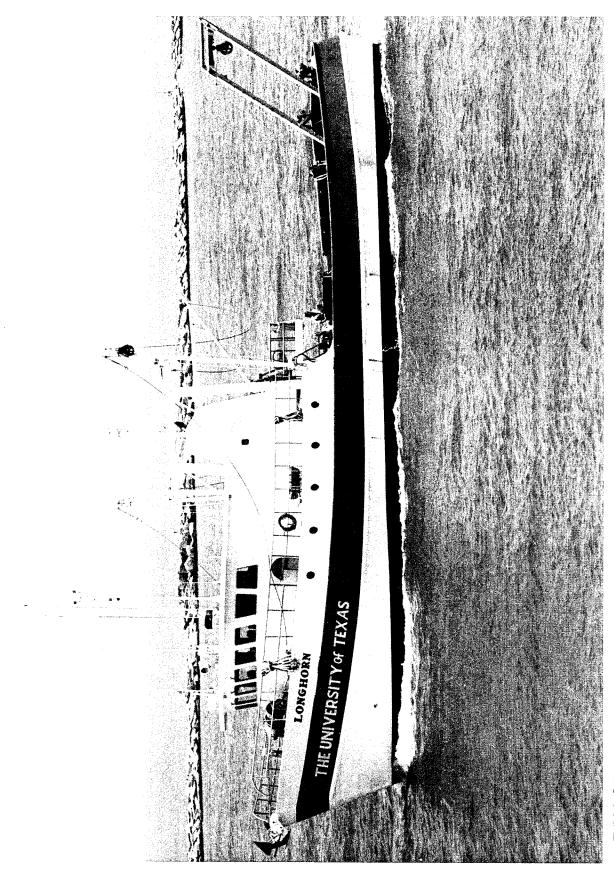
11000 GALLONS FUEL CAPACITY:

DIESEL #2/DIESEL #1 FUEL TYPE:

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 960 GAL/24-HRS
DURING AVERAGE OPERATIONS: 400 GAL/24-HRS
DURING INPORT OPERATIONS: 140 GAL/24-HRS

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CLIFFORD A BARNES

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

MR. K. W. JEFFERS POC:

POC OFFICE: MARINE SUPERINTENDENT SCHOOL OF OCEANOGRAPHY POC ORGANIZATION:

UNIVERSITY OF WASHINGTON WB10 POC ADDRESS:

SEATTLE WA 98195 POC CITY/STATE:

COMMERCIAL AREA CODE: 206

543-5062 PHONE:

ADMINISTRATIVE DETAILS

DESIGNATOR:

STEEL HULL UTILITY CLASS:

CALL SIGN (INTERNATIONAL):

FLEET: UNOLS

SHIP TYPE: OCEAN RESEARCH - GENERAL NATIONAL SCIENCE FOUNDATION SHIP OWNER:

CERTIFICATION AUTHORITY: USA FLAG REGISTRY:

SEATTLE WA USA HOME PORT:

TECHNICAL SPONSOR: UNIVERSITY OF WASHINGTON OPERATIONS CONTROL: UNIVERSITY OF WASHINGTON CONTRACTUAL INFORMATION: NSF OCE 82-19239 EXPIRES 10/92

3.0/90 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 6 NUMBER OFFICERS: 2 NUMBER IN CREW:

MAX SEA STATE: 2 BEAUFORT SCALE

7 DAY(S) ENDURANCE: LIMITING FACTOR: CREW

WESTERN BOAT BUILDING CORP. BUILDER:

WHERE BUILT: TACOMA WA USA

INITIAL COST: '00 DUE DATE: '00 KEEL DATE: '00 LAUNCH DATE: DELIVERY DATE: '66 '82 COMMISSION DATE: CONVERSION DATE: '84 '90 LAST OVERHAUL:

4.0 YEARS MAINTENANCE CYCLE:

END OF LIFE: 2004

UPDATE OF INFORMATION: 29 OCT 90

LENGTH: 65.5 FEET MAX BEAM: 19.6 FEET HEIGHT: 27.0 FEET

GROSS TONNAGE: -

DISPLACEMENT: 86 TONS DRAUGHT: 6.7 FEET CRUISE SPEED: 9.0 KNOTS

1600 NAUTICAL MILES

RANGE: 1600 MILE 10.0 KNOTS KNOTS MIN SPEED: 1.5 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED

AUXILIARY PROPULSION: NO NUMBER OF SHAFTS: BOW THRUSTER: NO ACTIVE RUDDER: N DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: N

BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: NONE WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT: N METEOROLOGICAL OBSERVATIONS: NO

UTILITY BOATS:

1. 13 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: - POUNDS NUMBER OF FRAMES: 0

CRANES OR BOOMS

MAX HOIST CAPACITY: 1600 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: CTD SECONDARY TYPE/USE: UTILITY

> SLIP-RINGS: 1

WIRE TYPE: CONDUCTOR CABLE

WIRE LENGTH: 4500 FEET WIRE DIAMETER: 0.322 INCHES 02. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE TYPE: WIRE ROPE WIRE LENGTH: 5000 FEET WIRE DIAMETER: 0.188 INCHES

03. MAJOR TYPE/USE: ANCHOR SECONDARY TYPE/USE: N SLIP-RINGS: WIRE ROPE WIRE TYPE: WIRE LENGTH: 1500 FEET 0.500 INCHES WIRE DIAMETER: 04. MAJOR TYPE/USE: OTHER SECONDARY TYPE/USE: TRAWL N SLIP-RINGS: WIRE ROPE WIRE TYPE: WIRE LENGTH: 600 FEET WIRE LENGTH: 600 FEET WIRE DIAMETER: 0.500 INCHES 05. MAJOR TYPE/USE: OTHER SECONDARY TYPE/USE: TRAWL SLIP-RINGS: N WIRE ROPE WIRE TYPE: WIRE LENGTH: 600 FEET 0.500 INCHES WIRE DIAMETER: 06. MAJOR TYPE/USE: CTDSLIP-RINGS: 1 WIRE TYPE: CONDUCTOR CABLE WIRE LENGTH: 1000 FEET

WIRE DIAMETER: 1000 FEET 0.322 INCHES

ELECTRONIC EQUIPMENT

NONE COMPUTERS: FACSIMILE: ELECTROMAGNETIC LOG: N INERTIAL NAVIGATION: RADAR (SURFACE SCAN): LORAN A: N Y LORAN C: N OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: N SINGLE SIDE BAND: Y VHF COMMUNICATIONS: STABLE TABLE: NARROW BEAM: N SEISMIC PROFILING: N SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): FURUNO SOUNDING SYSTEM (DEEP): FURUNO

FUEL DETAILS

1900 GALLONS FUEL CAPACITY:

FUEL TYPE: DIESEL #2/DIESEL #1

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 220 GAL/24-HRS DURING AVERAGE OPERATIONS: 105 GAL/24-HRS
DURING INPORT OPERATIONS: - GAL/24-HRS

******************* ********************** *******************

THOMAS G. THOMPSON

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. K. W. JEFFERS POC OFFICE:

MARINE SUPERINTENDENT POC ORGANIZATION: SCHOOL OF OCEANOGRAPHY

UNIVERSITY OF WASHINGTON WB10 POC ADDRESS:

SEATTLE WA 98195 POC CITY/STATE:

COMMERCIAL AREA CODE: 206

543-5062 PHONE:

ADMINISTRATIVE DETAILS

DESIGNATOR: RV

AGOR-23 CLASS: CALL SIGN (INTERNATIONAL): KTDQ UNOLS FLEET:

OCEAN RESEARCH - GENERAL SHIP TYPE: OFFICE OF NAVAL RESEARCH SHIP OWNER:

US COAST GUARD CERTIFICATION AUTHORITY:

FLAG REGISTRY: USA

HOME PORT: SEATTLE WA USA

UNIVERSITY OF WASHINGTON TECHNICAL SPONSOR: TECHNICAL SPONSOR:

OPERATIONS CONTROL:

CONTRACTUAL INFORMATION:

UNIVERSITY OF WASHINGTON

UNIVERSITY OF WASHINGTON

CHARTER PARTY AGREEMENT TO BE EXECUTED

15.0/90 THOUSAND \$'S IN YR OPERATING COST/DAY:

27 SCIENTIFIC COMPLEMENT: NUMBER OFFICERS: 9 NUMBER IN CREW: 13

6 BEAUFORT SCALE MAX SEA STATE:

33 DAYS @ 14KT AND 29 DAYS @ 3KT ENDURANCE:

LIMITING FACTOR: FOOD/FUEL

HALTER MARINE, INC. BUILDER: MOSS POINT MS USA WHERE BUILT:

INITIAL COST: 27.0/90 MILLION \$'S IN YEAR

DUE DATE:

29 MAR 89 KEEL DATE: LAUNCH DATE: 27 JUL 90 00 AUG 90 DELIVERY DATE:

COMMISSION DATE: CONVERSION DATE: LAST OVERHAUL:

MAINTENANCE CYCLE: 2.0 YEARS

END OF LIFE: 2020

UPDATE OF INFORMATION: 29 OCT 90

LENGTH: 274.0 FEET MAX BEAM: 52.5 FEET HEIGHT: 92.0 FEET

GROSS TONNAGE: 2050
DISPLACEMENT: 3250 TONS DRAUGHT: 19.0 FEET

CRUISE SPEED: 12.5 KNOTS
RANGE: 13000 NAUTICAL MILES
MAX SPEED: 14.0 KNOTS
MIN SPEED: 1.0 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL ELECTRIC

AUXILIARY PROPULSION: NUMBER OF SHAFTS: 2

BOW THRUSTER:
ACTIVE RUDDER: YES, WATER JET

N

DYNAMIC POSITIONING: ROBERTSON ROBPOS

ANTI-ROLL: STABILIZER:

DEEP ANCHOR: NONE FEET

BERTHING VAN DIMENSIONS: NONE
INSTRUMENT VAN DIMENSIONS: 8X8X20 (MULTIPLE)

WET-LAB: Y DRY-LAB: AMMUNITION STORAGE:

HOVER AREA ONLY HELO SUPPORT:

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 26 FOOT AVON SR-8 RIB 2. 15 FOOT ALUMINUM SKIFF

3. 15 FOOT ACHILLES INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 24000 POUNDS

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 42000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: SECONDARY TYPE/USE: SLIP-RINGS:

WIRE TYPE: CONDUCTOR CABLE
WIRE LENGTH: 30000 FEET
WIRE DIAMETER: 0.322 INCHES
02. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE:

SLIP-RINGS: WIRE TYPE: WIRE LENGTH: WIRE ROPE 30000 FEET WIRE DIAMETER: 0.250 INCHES 03. MAJOR TYPE/USE: TRAWL SECONDARY TYPE/USE: CORING

SLIP-RINGS:

WIRE TYPE: WIRE ROPE WIRE LENGTH: 30000 FEET WIRE DIAMETER: 0.563 INCHES SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LENH: 30000 FEET SECONDARY WIRE DIAM: 0.680 INCHES

ELECTRONIC EQUIPMENT

DATA ACQUISITION, PCs COMPUTERS: Y FACSIMILE: Y SPEED LOG: INERTIAL NAVIGATION: Y RADAR (SURFACE SCAN): LORAN A: N LORAN C: Y OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: Y SINGLE SIDE BAND: Y Y VHF COMMUNICATIONS: STABLE TABLE: N Y NARROW BEAM: SEISMIC PROFILING: SIDE SCAN: SOUNDING SYSTEM (SHALLOW): RAYTHEON SOUNDING SYSTEM (DEEP): RAYTHEON

FUEL DETAILS

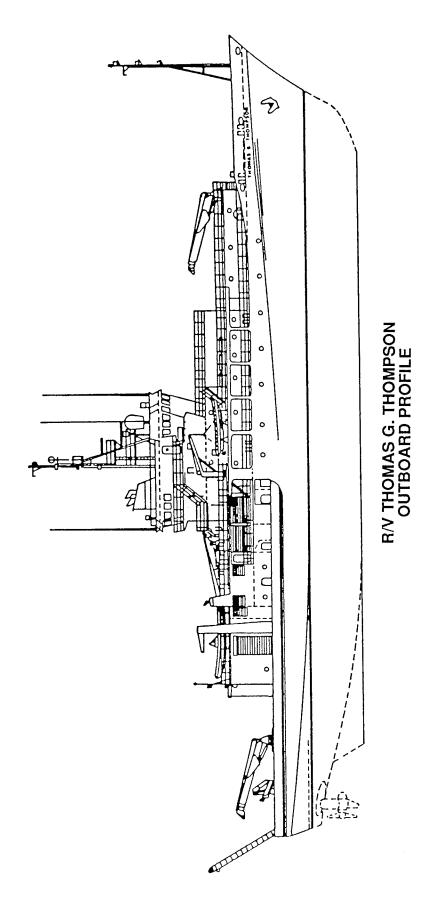
265000 GALLONS FUEL CAPACITY:

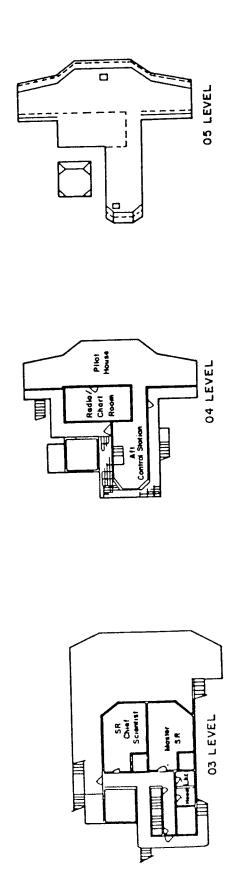
FUEL TYPE: MARINE DIESEL #2

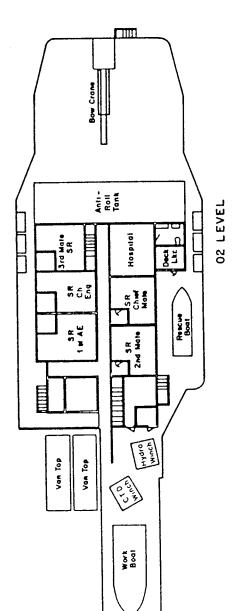
FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 4500 GAL/24-HRS DURING AVERAGE OPERATIONS: 3000 GAL/24-HRS 1000 GAL/24-HRS DURING INPORT OPERATIONS:

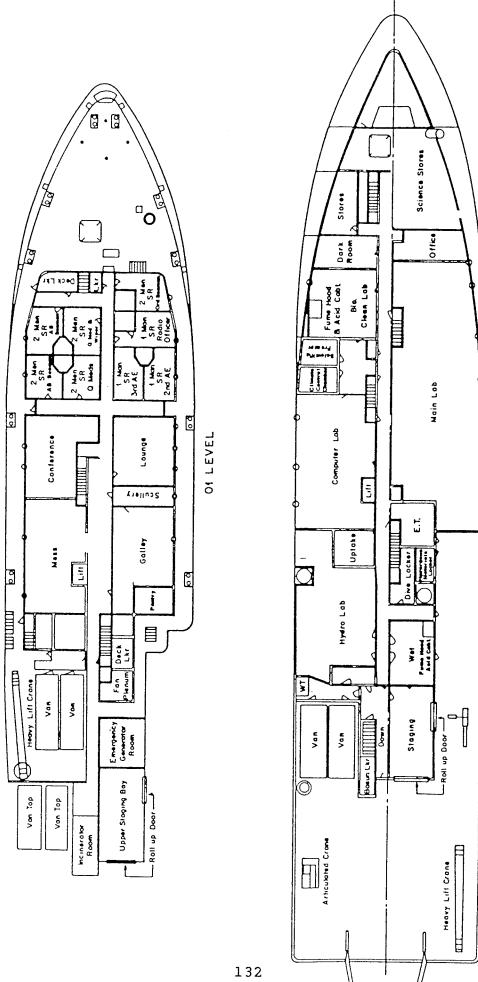
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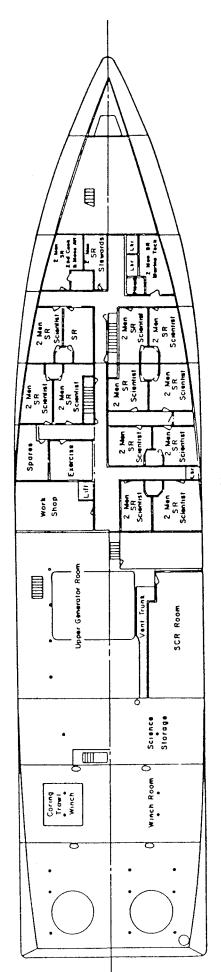


R/V THOMAS G. THOMPSON

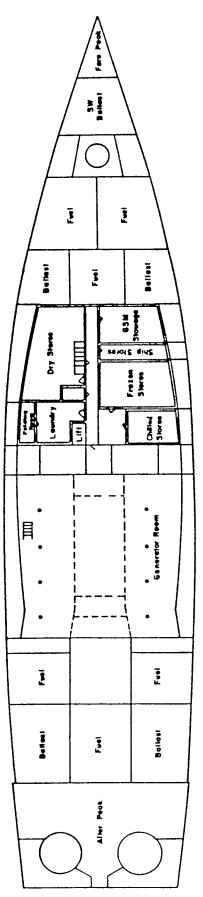


R/V THOMAS G. THOMPSON

UPPER MAIN DECK



1st PLATFORM DECK



HOLD & TANK TOP PLAN

R/V THOMAS G. THOMPSON

ATLANTIS II

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: CAPT. J. L. COBURN, JR. POC OFFICE: MARINE OPERATIONS MANAGER

POC ORGANIZATION: MARINE OPERATIONS

POC ADDRESS: WOODS HOLE OCEANOGRAPHIC INSTITUTION

POC CITY/STATE: WOODS HOLE MA 02543

COMMERCIAL AREA CODE: 508 PHONE: 548-1400

ADMINISTRATIVE DETAILS

DESIGNATOR: RV
CLASS: CALL SIGN (INTERNATIONAL): KADC

CALL SIGN (INTERNATIONAL): KADC UNOLS

SHIP TYPE: OCEAN RESEARCH-SUBMERSIBLE TENDER SHIP OWNER: WOODS HOLE OCEANOGRAPHIC INSTITUTION

CERTIFICATION AUTHORITY: USCG FLAG REGISTRY: USA

HOME PORT: WOODS HOLE MA

TECHNICAL SPONSOR: WOODS HOLE OCEANOGRAPHIC INSTITUTION OPERATIONS CONTROL: WOODS HOLE OCEANOGRAPHIC INSTITUTION

CONTRACTUAL INFORMATION: NONE

OPERATING COST/DAY: 14.9/90 THOUSAND \$'S IN YR

SCIENTIFIC COMPLEMENT: 28
NUMBER OFFICERS: NUMBER IN CREW: 25

MAX SEA STATE: - BEAUFORT SCALE

ENDURANCE: 30 DAY(S)

LIMITING FACTOR: ALVIN REQUIREMENTS

BUILDER: MARYLAND SHIPBUILDING AND DRYDOCK CO.

WHERE BUILT: BALTIMORE MD USA

INITIAL COST:

DUE DATE: '00
KEEL DATE: '00
LAUNCH DATE: '62

DELIVERY DATE: 31 JAN 63

COMMISSION DATE: '00 CONVERSION DATE: '83

LAST OVERHAUL: 00 JAN 88 MAINTENANCE CYCLE: 2.0 YEARS

END OF LIFE: 1999

UPDATE OF INFORMATION: 27 APR 90

LENGTH: 210.3 FEET MAX BEAM: 44.0 FEET HEIGHT: - FEET - FEET

GROSS TONNAGE: 1529
DISPLACEMENT: 2300 TONS
DRAUGHT: 16.0 FEET
CRUISE SPEED: 11.5 KNOTS
RANGE: 9000 NAUTICAL MILES
MAX SPEED: 13.0 KNOTS
MIN SPEED: - KNOTS

ENGINEERING/DECK EQUIPMENT

DIESEL DIESEL MAIN PROPULSION: AUXILIARY PROPULSION:

NUMBER OF SHAFTS:

TRAINABLE BOW THRUSTER:

ACTIVE RUDDER: DYNAMIC POSITIONING: ANTI-ROLL: N STABILIZER:

DEEP ANCHOR: NONE FEET

BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: NONE WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: HELO SUPPORT: METEOROLOGICAL OBSERVATIONS: N

UTILITY BOATS:

1. 16 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 56000 POUNDS NUMBER OF FRAMES: 1

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 40000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: TRAWL

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE ROPE WIRE TYPE: WIRE LENGTH: 30000 FEET WIRE DIAMETER: 0.500 INCHES 02. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE: UTILITY

SLIP-RINGS: Y

WIRE TYPE: WIRE ROPE
WIRE LENGTH: 30000 FEET
WIRE DIAMETER: 0.187 INCHES
SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LEN: 25000 FEET SECONDARY WIRE DIAM: 0.303 INCHES

ELECTRONIC EQUIPMENT

MICROVAX, PC'S COMPUTERS: FACSIMILE: ELECTROMAGNETIC LOG: Υ INERTIAL NAVIGATION: Ν RADAR (SURFACE SCAN): Y LORAN A: LORAN C: OMEGA: SATELLITE NAVIGATION: Y RADIO TELETYPE COMMUNICATION: N SINGLE SIDE BAND: Y VHF COMMUNICATIONS: N STABLE TABLE: Y NARROW BEAM: SEISMIC PROFILING: SIDE SCAN: SOUNDING SYSTEM (SHALLOW): FURUNO

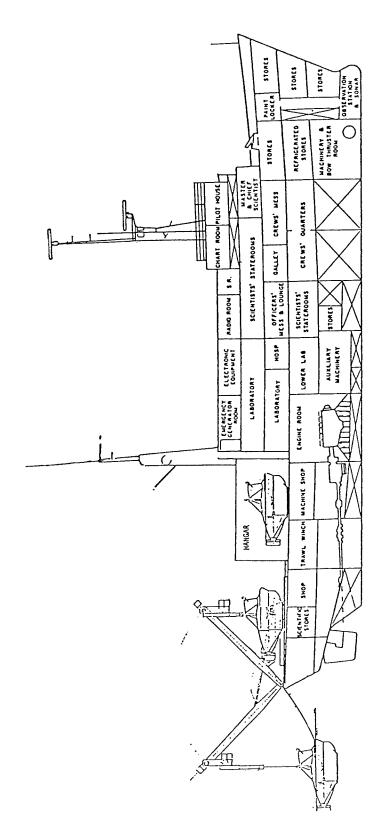
SOUNDING SYSTEM (DEEP): SEA BEAM

FUEL DETAILS

FUEL CAPACITY: 90000 GALLONS FUEL TYPE: MG-O

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: GAL/24-HRS
DURING AVERAGE OPERATIONS: GAL/24-HRS
DURING INPORT OPERATIONS: - GAL/24-HRS



R/V ATLANTIS II

KNORR

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: CAPT J. L. COBURN, JR.

POC OFFICE: MARINE OPERATIONS MANAGER

POC ORGANIZATION: MARINE OPERATIONS

WOODS HOLE OCEANOGRAPHIC INSTITUTION POC ADDRESS:

WOODS HOLE MA 02543 POC CITY/STATE:

COMMERCIAL AREA CODE: 508

548-1400 PHONE:

ADMINISTRATIVE DETAILS

AGOR 15 DESIGNATOR:

MELVILLE/AGOR 14 CLASS:

CALL SIGN (INTERNATIONAL): KCEJ FLEET: UNOLS

SHIP TYPE: OCEAN RESEARCH-GENERAL

SHIP OWNER: USN

CERTIFICATION AUTHORITY: US COAST GUARD

FLAG REGISTRY: USA

WOODS HOLE MA HOME PORT:

TECHNICAL SPONSOR: WOODS HOLE OCEANOGRAPHIC INSTITUTION OPERATIONS CONTROL: WOODS HOLE OCEANOGRAPHIC INSTITUTION CONTRACTUAL INFORMATION: ONR CODE 611 LEASE TO EXPIRE 05 AUG 90

17.0/90 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: NUMBER OFFICERS: 25 NUMBER IN CREW:

- BEAUFORT SCALE MAX SEA STATE:

35 DAY(S) ENDURANCE:

LIMITING FACTOR:

BUILDER: DEFOE SHIPBUILDING COMPANY

BAY CITY MI USA WHERE BUILT:

INITIAL COST: '00 DUE DATE:

09 AUG 67 KEEL DATE: 21 AUG 68 LAUNCH DATE:

'70 DELIVERY DATE: 14 JAN 70 COMMISSION DATE: CONVERSION DATE: 00 MAY 90

18 DEC 86 LAST OVERHAUL: 1.5 YEARS MAINTENANCE CYCLE:

END OF LIFE: 2010

UPDATE OF INFORMATION: 27 APR 90

MAX BEAM: 278.8 FEET 46.0 FEET HEIGHT:

GROSS TONNAGE: 2200
DISPLACEMENT: 2685 TONS
DRAUGHT: 15.5 FEET
CRUISE SPEED: 12.0 KNOTS
RANGE: 14000 NAUTICAL MILES
MAX SPEED: 14.0 KNOTS

MIN SPEED: 0.1 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL ELECTRIC

AUXILIARY PROPULSION: NONE NUMBER OF SHAFTS:

BOW THRUSTER: RETRACTABLE, TRAINABLE

ACTIVE RUDDER: N DYNAMIC POSITIONING: Y ANTI-ROLL: N STABILIZER:

DEEP ANCHOR:

BERTHING VAN DIMENSIONS:

INSTRUMENT VAN DIMENSIONS:

WET-LAB:

NONE FEET
8X8X20

WET-LAB: Y DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT: METEOROLOGICAL OBSERVATIONS: NO

UTILITY BOATS:

1. 19 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: POUNDS

NUMBER OF FRAMES: 0

CRANES OR BOOMS

MAX HOIST CAPACITY: 70000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE:

SLIP-RINGS: N

WIRE ROPE WIRE TYPE: WIRE LENGTH: 30000 FEET WIRE DIAMETER: 0.187 INCHES 02. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE TYPE: CONDUCTOR CABLE

WIRE LENGTH: 33000 FEET WIRE DIAMETER: 0.322 INCHES 03. MAJOR TYPE/USE: TRAWL

SECONDARY TYPE/USE:

SLIP-RINGS:

WIRE TYPE: WIRE ROPE
WIRE LENGTH: 30000 FEET
WIRE DIAMETER: 0.500 INCHES

ELECTRONIC EQUIPMENT

Y, TYPE UNKNOWN COMPUTERS: Y FACSIMILE: ELECTROMAGNETIC LOG: N N INERTIAL NAVIGATION: Y RADAR (SURFACE SCAN): LORAN A: LORAN C: Y OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: Y SINGLE SIDE BAND: VHF COMMUNICATIONS: Y N STABLE TABLE: NARROW BEAM: NAKKOW DEAM. SEISMIC PROFILING: SIDE SCAN:

SOUNDING SYSTEM (SHALLOW):

SOUNDING SYSTEM (DEEP):

N

HYDRO PRODUCTS

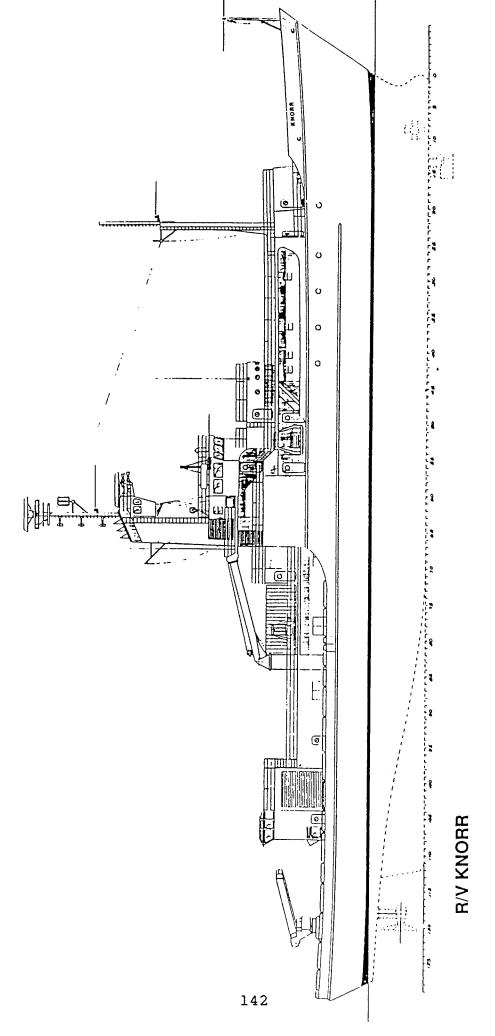
RAYTHEON

FUEL DETAILS

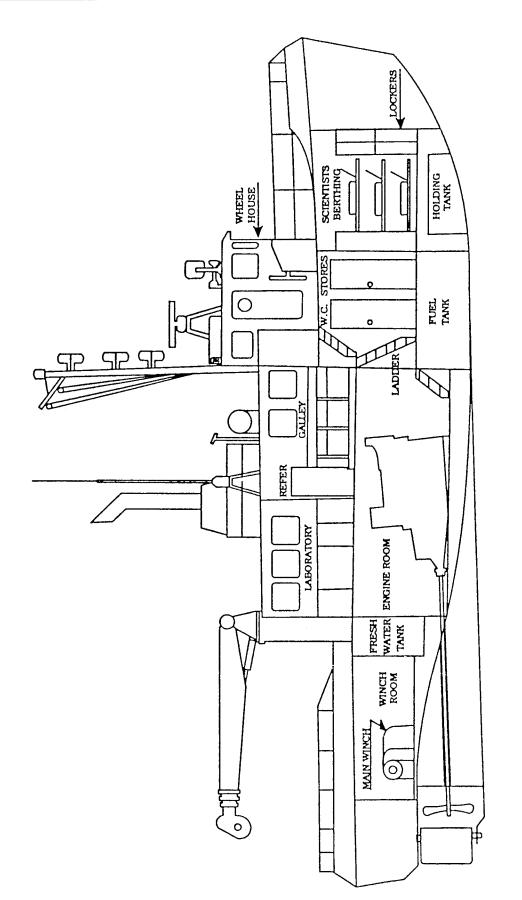
FUEL CAPACITY: 160000 GALLONS FUEL TYPE: DIESEL FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 2200 GAL/24-HRS DURING AVERAGE OPERATIONS: 2000 GAL/24-HRS DURING INPORT OPERATIONS: 500 GAL/24-HRS

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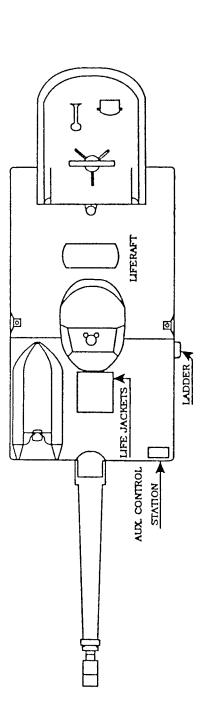


New Outboard Profile of AGOR-15 as Proposed

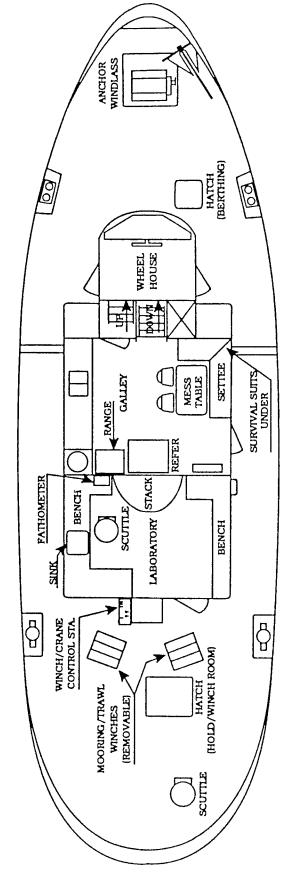


R/V KNORR

INBOARD PROFILE



UPPER DECK



R/V KNORR

MAIN DECK

OCEANUS

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: CAPT J. L. COBURN, JR.

POC OFFICE: MARINE OPERATIONS MANAGER

POC ORGANIZATION: MARINE OPERATIONS

WOODS HOLE OCEANOGRAPHIC INSTITUTION POC ADDRESS:

WOODS HOLE MA 02543 POC CITY/STATE:

COMMERCIAL AREA CODE: 508

PHONE: 548-1400

ADMINISTRATIVE DETAILS

DESIGNATOR: RV

CLASS: **OCEANUS**

CALL SIGN (INTERNATIONAL): WXAQ FLEET: UNOLS

SHIP TYPE: OCEAN RESEARCH-GENERAL

SHIP OWNER: NSF CERTIFICATION AUTHORITY: USA FLAG REGISTRY:

HOME PORT: WOODS HOLE MA

OPERATIONS CONTROL: WOODS HOLE OCEANOGRAPHIC INSTITUTION WOODS HOLE OCEANOGRAPHIC INSTITUTION

NONE

OPERATING COST/DAY: 7.9/90 THOUSAND \$'S IN YR

SCIENTIFIC COMPLEMENT: 12 NUMBER OFFICERS: 12 NUMBER IN CREW:

- BEAUFORT SCALE MAX SEA STATE:

25 DAY(S) ENDURANCE:

LIMITING FACTOR:

BUILDER: PETERSON BUILDERS INC WHERE BUILT: STURGEON BAY WI USA

INITIAL COST: 3.5/75 MILLION \$'S IN YEAR

'00 DUE DATE: KEEL DATE: '00

LAUNCH DATE: 19 DEC 74 21 NOV 75 DELIVERY DATE:

COMMISSION DATE: '00 '91 CONVERSION DATE:

00 AUG 89 LAST OVERHAUL: MAINTENANCE CYCLE: 1.5 YEARS

END OF LIFE: 2020

UPDATE OF INFORMATION: 27 APR 90

177.0 FEET LENGTH: MAX BEAM: HEIGHT: 33.0 FEET 86.0 FEET

GROSS TONNAGE: 297
DISPLACEMENT: 960 TONS
DRAUGHT: 17.5 FEET
CRUISE SPEED: 12.5 KNOTS
RANGE: 7500 NAUTICAL MILES

MAX SPEED: 15.0 KNOTS
MIN SPEED: 1.0 KNOTS

ENGINEERING/DECK EQUIPMENT

DIESEL GEARED MAIN PROPULSION:

AUXILIARY PROPULSION: NO NUMBER OF SHAFTS:

BOW THRUSTER: TRAINABLE

ACTIVE RUDDER: DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER:

DEEP ANCHOR: NONE FEET

BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: 8X8X13

WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT: METEOROLOGICAL OBSERVATIONS: -UTILITY BOATS:

1. 15 FOOT RUBBER INFLATABLE

2. 12 FOOT SKIFF

A, U, OR L FRAMES

MAX HOIST CAPACITY: 30000 POUNDS 1 NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 30000 POUNDS NUMBER OF CRANES: 1

WINCHES:

01. MAJOR TYPE/USE: TRAWL MAJOR TYPE/USE.
SECONDARY TYPE/USE: CORING
CITE_BINGS: Y

WIRE ROPE WIRE TYPE: WIRE LENGTH: 30000 FEET WIRE DIAMETER: 0.500 INCHES 02. MAJOR TYPE/USE: HYDROGRAPHIC SECONDARY TYPE/USE: UTILITY

SLIP-RINGS:

WIRE TYPE: WIRE ROPE WIRE LENGTH: 30000 FEET 0.187 INCHES WIRE DIAMETER: SECONDARY WIRE TYPE: CONDUCTOR CABLE

SECONDARY WIRE LEN: 25000 FEET SECONDARY WIRE DIAM: 0.303 INCHES

ELECTRONIC EQUIPMENT

PC'S COMPUTERS: Y FACSIMILE: Y ELECTROMAGNETIC LOG: N INERTIAL NAVIGATION: Y RADAR (SURFACE SCAN): LORAN A: N Y LORAN C: OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: N SINGLE SIDE BAND: VHF COMMUNICATIONS: N STABLE TABLE: N NARROW BEAM: SEISMIC PROFILING: SIDE SCAN: SOUNDING SYSTEM (SHALLOW): ROSS

EDO RAYTHEON SOUNDING SYSTEM (DEEP):

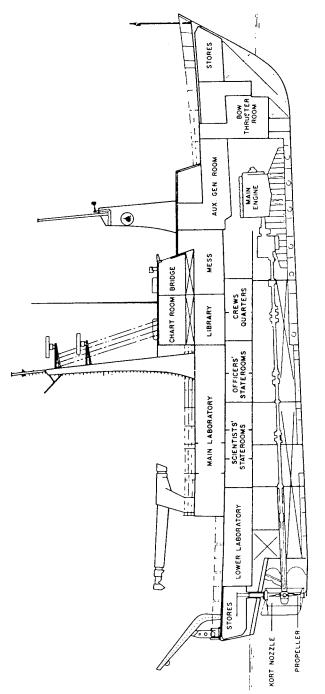
FUEL DETAILS

56000 GALLONS FUEL CAPACITY: DIESEL #2 FUEL TYPE:

FUEL CONSUMPTION RATES:

GAL/24-HRS GAL/24-HRS AT NORMAL CRUISING SPEED: DURING AVERAGE OPERATIONS: GAL/24-HRS
DURING INPORT OPERATIONS: - GAL/24-HRS

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R/V OCEANUS

LAURENTIAN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

LINDA GOAD POC:

CENTER FOR GREAT LAKES & AQUATIC SCIENCES

POC:

POC OFFICE:

CENTER FOR GREAT LAKES

POC ORGANIZATION:

UNIVERSITY OF MICHIGAN POC ADDRESS: 2200 BONISTEEL BLVD ANN ARBOR MI 48109-2099 POC CITY/STATE:

COMMERCIAL AREA CODE: 313

763-5393 PHONE: 747-2748 FAX:

ADMINISTRATIVE DETAILS

DESIGNATOR:

TRAWLER

CALL SIGN (INTERNATIONAL): -

UNOLS FLEET:

COASTAL ZONE RESEARCH-GENERAL SHIP TYPE: REGENTS, UNIVERSITY OF MICHIGAN SHIP OWNER:

CERTIFICATION AUTHORITY: FLAG REGISTRY: USA

HOME PORT:

TECHNICAL SPONSOR:

OPERATIONS CONTROL:

CON GRAND HAVEN MICHIGAN HOME PORT:

3.8/91 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: NUMBER OFFICERS: NUMBER IN CREW:

4 BEAUFORT SCALE MAX SEA STATE:

10 DAY(S) ENDURANCE: LIMITING FACTOR: STORES

F B WALKER & SONS INC. BUILDER:

PASCAGOULA MS USA WHERE BUILT:

INITIAL COST: DUE DATE: 100 '00 KEEL DATE:

LAUNCH DATE: 00 APR 74 DELIVERY DATE: 00 JUN 74

'00 COMMISSION DATE: '00 CONVERSION DATE:

00 APR 89 LAST OVERHAUL: 1.5 YEARS MAINTENANCE CYCLE:

1998 END OF LIFE:

UPDATE OF INFORMATION: 31 OCT 91

MAX BEAM: 21.5 FEET HEIGHT: 40.0 FFFT HEIGHT: 40.0 FEET GROSS TONNAGE: 129

DISPLACEMENT: 180 TONS DRAUGHT: 8.8 FEET

CRUISE SPEED: 8.5 KNOTS
RANGE: 3000 NAUTICAL MILES
MAX SPEED: 9.6 KNOTS
MIN SPEED: 0.5 KNOTS

ENGINEERING/DECK EQUIPMENT

DIESEL GEARED N MAIN PROPULSION:

AUXILIARY PROPULSION: NUMBER OF SHAFTS: 1 BOW THRUSTER: ACTIVE RUDDER: N DYNAMIC POSITIONING: ANTI-ROLL: N STABILIZER:

DEEP ANCHOR: 600 FEET

BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: NONE WET-LAB: Y DRY-LAB: AMMUNITION STORAGE: N HELO SUPPORT: METEOROLOGICAL OBSERVATIONS: Y

UTILITY BOATS:

1. 13 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY: 2000 POUNDS

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 2000 POUNDS NUMBER OF CRANES: 1

WINCHES:

01. MAJOR TYPE/USE: TRAWL SECONDARY TYPE/USE: ANCHOR

SLIP-RINGS: N

WIRE TYPE: WIRE ROPE
WIRE LENGTH: 2000 FEET
WIRE DIAMETER: 0.190 INCHES
02. MAJOR TYPE/USE: TRAWL

SECONDARY TYPE/USE: CORING

SLIP-RINGS: N

WIRE TYPE: WIRE ROPE WIRE LENGTH: 2000 FEET WIRE DIAMETER: 0.500 INCHES 03. MAJOR TYPE/USE: BATHYTHERMOGRAPHIC

SECONDARY TYPE/USE: OTHER

SLIP-RINGS: N

WIRE TYPE: WIRE ROPE
WIRE LENGTH: 1500 FEET
WIRE DIAMETER: 0.125 INCHES
04. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE: UTILITY

N SLIP-RINGS:

WIRE ROPE WIRE TYPE: WIRE TYPE: WIRE ROPE
WIRE LENGTH: 1000 FEET
WIRE DIAMETER: 0.125 INCHES
05. MAJOR TYPE/USE: CTD

SECONDARY TYPE/USE:

10 SLIP-RINGS:

WIRE TYPE: CONDUCTOR CABLE

WIRE LENGTH: 2300 FEET WIRE LENGTH: 2300 FEET WIRE DIAMETER: 0.322 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS: Y-ZENITH 286

Y-ALDEN MARINE FAX 4 FACSIMILE:

N ELECTROMAGNETIC LOG: INERTIAL NAVIGATION: N RADAR (SURFACE SCAN): Y LORAN A: Ν Y LORAN C: OMEGA: SATELLITE NAVIGATION: Y RADIO TELETYPE COMMUNICATION: N SINGLE SIDE BAND: Y VHF COMMUNICATIONS: N STABLE TABLE: N NARROW BEAM: SEISMIC PROFILING:

SOUNDING SYSTEM (SHALLOW): ROSS 801/250CG SOUNDING SYSTEM (DEEP): NONE

FUEL DETAILS

SIDE SCAN:

9000 GALLONS FUEL CAPACITY: DIESEL #2 FUEL TYPE:

FUEL CONSUMPTION RATES:

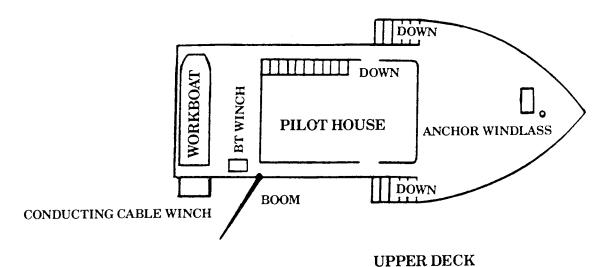
AT NORMAL CRUISING SPEED: 336 GAL/24-HRS
DURING AVERAGE OPERATIONS: 300 GAL/24-HRS
DURING INPORT OPERATIONS: 95 GAL/24-HRS

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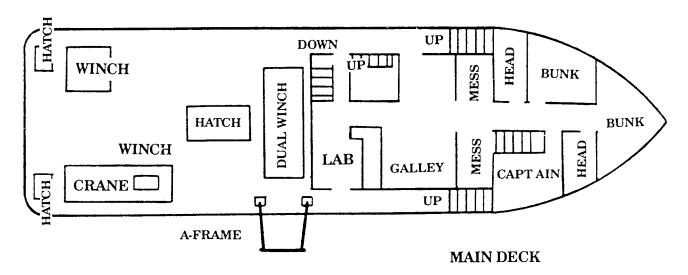


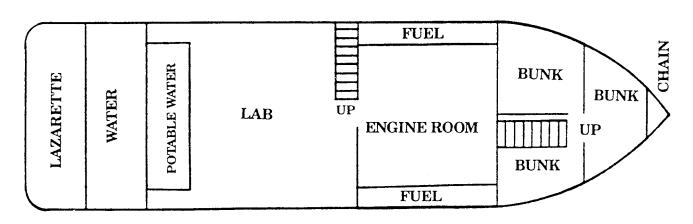


DECK PLANS



OI I BROBE





R/V LAURENTIAN

WEATHERBIRD II

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: MR. HOWARD S. BARNES

POC OFFICE: OPERATIONS

POC ORGANIZATION: BERMUDA BIOLOGICAL STATION FOR RESEARCH, INC.

POC ADDRESS: 17 BIOLOGICAL STATION LANE

POC CITY/STATE: FERRY REACH ST. GEORGE'S GEO1 BERMUDA

COMMERCIAL AREA CODE: 809

PHONE: 297-1880 FAX: 297-8143

ADMINISTRATIVE DETAILS

DESIGNATOR: RV

CLASS: GENERAL PURPOSE-OCEAN RESEARCH VESSEL

CALL SIGN (INTERNATIONAL): WAH4677 FLEET: UNOLS

SHIP TYPE: OCEAN RESEARCH-GENERAL

SHIP OWNER: BBSR

CERTIFICATION AUTHORITY: US COAST GUARD

FLAG REGISTRY: USA

HOME PORT: ST. GEORGE'S BERMUDA

TECHNICAL SPONSOR: BBSR
OPERATIONS CONTROL: BBSR
CONTRACTUAL INFORMATION: NONE

OPERATING COST/DAY: 4.8/91 THOUSAND \$'S IN YR

SCIENTIFIC COMPLEMENT: 8-10 NUMBER OFFICERS: -

NUMBER IN CREW: 6-8

MAX SEA STATE: 3 BEAUFORT SCALE

ENDURANCE: 14 DAY(S)
LIMITING FACTOR: STORES

BUILDER: BOSARGE MARINE WHERE BUILT: ALABAMA USA

INITIAL COST: 0.385/82 MILLION \$'S IN YEAR

DUE DATE: - KEEL DATE: '82

LAUNCH DATE: '82
DELIVERY DATE: '89
COMMISSION DATE: '89
CONVERSION DATE: '89
LAST OVERHAUL: '89

MAINTENANCE CYCLE: 1.5 YEARS

END OF LIFE: 2005

UPDATE OF INFORMATION: 26 OCT 90

MAX BEAM: 115.0 FEET 28.0 FEET HEIGHT: 44.0 FEET

GROSS TONNAGE: 105
DISPLACEMENT: 250 TONS
DRAUGHT: 8.5 FEET
CRUISE SPEED: 9.5 KNOTS
RANGE: 7500 NAUTICAL MILES
MAX SPEED: 9.5 KNOTS

MIN SPEED: 3.0 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL HYDRAULIC

AUXILIARY PROPULSION: NO NUMBER OF SHAFTS: 2 BOW THRUSTER: Ν ACTIVE RUDDER: N DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: DEEP ANCHOR:
BERTHING VAN DIMENSIONS:
INSTRUMENT VAN DIMENSIONS:
WET-LAB:

NONE
YES DIMENSIONS UNKNOWN
V

DRY-LAB: Y AMMUNITION STORAGE: HELO SUPPORT: N METEOROLOGICAL OBSERVATIONS: N

UTILITY BOATS:

1. 10 FOOT AVON RIB

A, U, OR L FRAMES

20000 POUNDS MAX HOIST CAPACITY:

NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 20000 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: HYDROGRAPHIC

SECONDARY TYPE/USE: NONE SLIP-RINGS: М

WIRE TYPE: WIRE LENGTH:
WIRE DIAMETER:
02. MAJOR TYPE/USE:
SECONDARY TYPE HYDRO CABLE 24090 FEET 0.188 INCHES

MOORING SECONDARY TYPE/USE: HOIST

> SLIP-RINGS: N

WIRE TYPE: WIRE LENGTH: WIRE ROPE 13200 FEET WIRE DIAMETER: 0.500 INCHES 03. MAJOR TYPE/USE: CTD SECONDARY TYPE/USE: NONE

SLIP-RINGS:
WIRE TYPE:
WIRE LENGTH:
WIRE DIAMETER:

04. MAJOR TYPE/USE:
A FRAME HOIST

SECONDARY TYPE/USE: MOORING

SLIP-RINGS: N

7 X 19 WIRE TYPE: WIRE LENGTH: 3300 FEET WIRE LENGTH: 3300 FEET WIRE DIAMETER: 0.625 INCHES

ELECTRONIC EOUIPMENT

HEWLETT PACKARD & IBM PC COMPUTERS:

FACSIMILE: ELECTROMAGNETIC LOG: N INERTIAL NAVIGATION:

N FURUNO FCR-1411 & FURUNO 1930 RADAR (SURFACE SCAN):

LORAN A:

NORTHSTAR 800-X & FURUNO LC90 MKII LORAN C:

OMEGA:

SATELLITE NAVIGATION: RECAL-DECCA 402

RADIO TELETYPE COMMUNICATION: N SINGLE SIDE BAND: VHF COMMUNICATIONS: STABLE TABLE: NARROW BEAM: N SEISMIC PROFILING: SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): DATA MARINE SOUNDING SYSTEM (DEEP): RAYTHEON DSF 600

FUEL DETAILS

35000 GALLONS FUEL CAPACITY: DIESEL FUEL TYPE:

FUEL CONSUMPTION RATES:

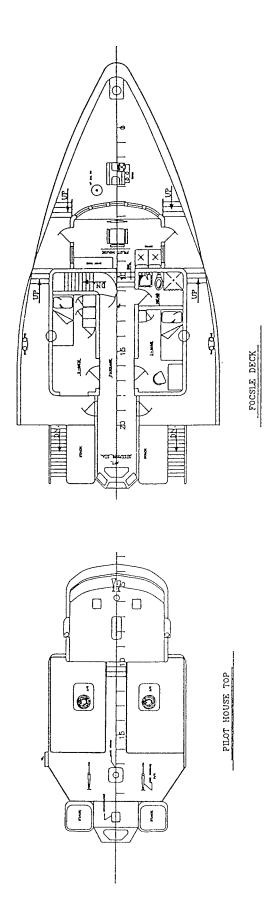
AT NORMAL CRUISING SPEED: 800 GAL/24-HRS DURING AVERAGE OPERATIONS: DURING INPORT OPERATIONS: 400 GAL/24-HRS 100 GAL/24-HRS

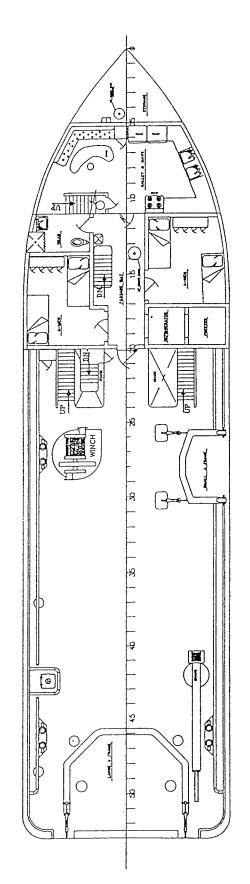
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R/V WEATHERBIRD

159





R/V WEATHERBIRD

MAIN DECK

LINWOOD HOLTON

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC OFFICE: ROBERT N BRAY SENIOR CAPTAIN

POC ORGANIZATION: DEPT. OF OCEANOGRAPHY, OLD DOMINION UNIV.

POC ADDRESS: HAMPTON BLVD.

NORFOLK VA 23508 POC CITY/STATE:

COMMERCIAL AREA CODE: 804

440-4285 PHONE:

ADMINISTRATIVE DETAILS

RV DESIGNATOR:

ARMY 'T' BOAT CLASS:

CALL SIGN (INTERNATIONAL): WZN9847 FLEET: UNIV

SHIP TYPE: COASTAL-BAY SURVEY-GENERAL SHIP OWNER: OLD DOMINION UNIVERSITY

CERTIFICATION AUTHORITY: N/A FLAG REGISTRY: USA

HOME PORT: NORFOLK VA

TECHNICAL SPONSOR:

OPERATIONS CONTROL:

CONTRACTUAL INFORMATION:

DEPT OF OCEANOGRAPHY, OLD DOMINION UNIV.

CALL POC FOR AVAILABILITY.

1.0/83 THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 20 NUMBER OFFICERS: 1 NUMBER IN CREW: 1

MAX SEA STATE: 6 BEAUFORT SCALE

3 DAY(S) ENDURANCE: LIMITING FACTOR: FUEL BUILDER: HIGGINS

WHERE BUILT: NEW ORLEANS LA USA

INITIAL COST: DUE DATE: KEEL DATE: LAUNCH DATE: DELIVERY DATE: '53 COMMISSION DATE: CONVERSION DATE: 170

28 FEB 81 LAST OVERHAUL: 2.0 YEARS MAINTENANCE CYCLE:

END OF LIFE: 1990

UPDATE OF INFORMATION: 27 APR 90

65.0 FEET LENGTH: 18.5 FEET MAX BEAM: 40.0 FEET HEIGHT:

GROSS TONNAGE:

95 TONS 7.0 FEET DISPLACEMENT: DRAUGHT: CRUISE SPEED: 10.0 KNOTS

850 NAUTICAL MILES RANGE:

MAX SPEED: 11.5 KNOTS MIN SPEED: 3.5 KNOTS

ENGINEERING/DECK EQUIPMENT

DIESEL ELECTRIC NONE MAIN PROPULSION:

AUXILIARY PROPULSION: NUMBER OF SHAFTS: BOW THRUSTER: N ACTIVE RUDDER: DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER:

DEEP ANCHOR: NONE FEET

BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: NONE WET-LAB: DRY-LAB: N N AMMUNITION STORAGE: HELO SUPPORT:

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. 11 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: POUNDS

0 NUMBER OF FRAMES:

CRANES OR BOOMS

1500 POUNDS 3 MAX HOIST CAPACITY:

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: TRAWL SECONDARY TYPE/USE: UTILITY

> SLIP-RINGS: N

WIRE TYPE: WIRE ROPE WIRE LENGTH: 0300 FEET WIRE DIAMETER: 0.313 INCHES SECONDARY WIRE TYPE: WIRE ROPE SECONDARY WIRE LEN: 0500 FEET

SECONDARY WIRE DIAM: 0.188 INCHES

02. MAJOR TYPE/USE: HYDROGRAPHIC SECONDARY TYPE/USE: UTILITY

SLIP-RINGS:

WIRE ROPE WIRE TYPE: WIRE LENGTH: 0350 FEET WIRE LENGTH:

WIRE DIAMETER:

0.188 INCHES

0.3. MAJOR TYPE/USE:

SECONDARY TYPE/USE:

UTILITY

SLIP-RINGS:

WIRE ROPE WIRE TYPE: WIRE LENGTH: 0350 FEET 0.188 INCHES WIRE DIAMETER:

ELECTRONIC EQUIPMENT

NONE COMPUTERS: FACSIMILE: N ELECTROMAGNETIC LOG: INERTIAL NAVIGATION: RADAR (SURFACE SCAN): LORAN A: Y LORAN C: OMEGA: SATELLITE NAVIGATION: N RADIO TELETYPE COMMUNICATION: N SINGLE SIDE BAND: VHF COMMUNICATIONS: N STABLE TABLE: NARROW BEAM: SEISMIC PROFILING: SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): RAYTHEON

SOUNDING SYSTEM (DEEP): NONE

FUEL DETAILS

1150 GALLONS FUEL CAPACITY: FUEL TYPE: DIESEL

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 312 GAL/24-HRS
DURING AVERAGE OPERATIONS: 250 GAL/24-HRS
DURING INPORT OPERATIONS: 0 GAL/24-HRS

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TOMMY MUNRO

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC: RICHARD WALLER
POC OFFICE: SHIP OPERATIONS COMMITTEE
POC ORGANIZATION: GULF COAST RESEARCH LABORATORY

POC ADDRESS: P. O. BOX 7000

OCEAN SPRINGS, MS 39564 POC CITY/STATE:

COMMERCIAL AREA CODE: 601

872-4203 PHONE:

ADMINISTRATIVE DETAILS

R/V DESIGNATOR:

TRAWLER CLASS: CALL SIGN (INTERNATIONAL): WRB2908

UNIV FLEET:

GENERAL OCEAN RESEARCH SHIP TYPE: STATE OF MISSISSIPPI SHIP OWNER: CERTIFICATION AUTHORITY: US COAST GUARD - ABS

USA FLAG REGISTRY:

OCEAN SPRINGS MS HOME PORT:

TECHNICAL SPONSOR:

TECHNICAL SPONSOK:

OPERATIONS CONTROL:

CONTRACTUAL INFORMATION:

CALL/WRITE POINT OF CONTACT

THOUSAND S'S IN YR - THOUSAND \$'S IN YR OPERATING COST/DAY:

SCIENTIFIC COMPLEMENT: 12 NUMBER OFFICERS: 5 NUMBER IN CREW:

- BEAUFORT SCALE MAX SEA STATE:

20 DAY(S) ENDURANCE:

LIMITING FACTOR: FUEL BUILDER:

WHERE BUILT: INITIAL COST: '00 DUE DATE: KEEL DATE: '00 '00 LAUNCH DATE: DELIVERY DATE: '81 '00 COMMISSION DATE: CONVERSION DATE: '00

LAST OVERHAUL:

YEARS MAINTENANCE CYCLE:

END OF LIFE:

UPDATE OF INFORMATION: 05 NOV 90

MAX BEAM: 97.5 FEET 25.0 FEET HEIGHT:

HEIGHT: - FEET
GROSS TONNAGE: 159
DISPLACEMENT: - TONS
DRAUGHT: 9.0 FEET

CRUISE SPEED: 10.0 KNOTS
RANGE: 2500 NAUTICAL MILES
MAX SPEED: - KNOTS MIN SPEED: - KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL AUXILIARY PROPULSION:

NUMBER OF SHAFTS: BOW THRUSTER: ACTIVE RUDDER: DYNAMIC POSITIONING:

ANTI-ROLL: STABILIZER:

DEEP ANCHOR: FEET

BERTHING VAN DIMENSIONS: NONE INSTRUMENT VAN DIMENSIONS: NONE

WET-LAB: DRY-LAB: Y AMMUNITION STORAGE: HELO SUPPORT:

METEOROLOGICAL OBSERVATIONS: SURFACE

UTILITY BOATS:

1. -- FOOT ZODIAC

A, U, OR L FRAMES

MAX HOIST CAPACITY: NUMBER OF FRAMES: 2 - POUNDS

CRANES OR BOOMS

MAX HOIST CAPACITY: 4000 POUNDS NUMBER OF CRANES: 1

WINCHES:

01. MAJOR TYPE/USE:

MAJOR TYPE/USE: TRAWL SECONDARY TYPE/USE: -SLIP-RINGS: WIRE TYPE:

WIRE ROPE WIRE LENGTH: 7000 FEET 0.500 INCHES WIRE DIAMETER:

02. MAJOR TYPE/USE: TRAWL

SECONDARY TYPE/USE: HYDROGRAPHIC

SLIP-RINGS: 12

WIRE TYPE: CONDUCTOR CABLE

WIRE LENGTH: 13000 FEET
WIRE DIAMETER: 0.250 INCHES

03. MAJOR TYPE/USE: TRAWL

SECONDARY TYPE/USE: - SLIP-RINGS: -

WIRE TYPE: WIRE ROPE
WIRE LENGTH: 6000 FEET
WIRE DIAMETER: 0.375 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS: FACSIMILE: ELECTROMAGNETIC LOG: INERTIAL NAVIGATION: RADAR (SURFACE SCAN): LORAN A: LORAN C: OMEGA: SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: Y SINGLE SIDE BAND: VHF COMMUNICATIONS: Y STABLE TABLE: NARROW BEAM: SEISMIC PROFILING: SIDE SCAN:

SOUNDING SYSTEM (SHALLOW): ATLAS ECHOGRAPH

SOUNDING SYSTEM (DEEP): DATAMARINE

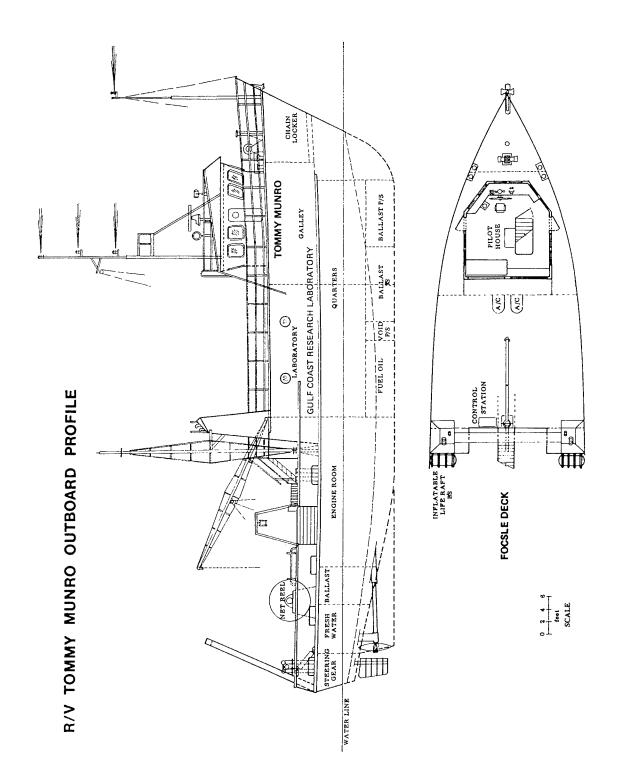
FUEL DETAILS

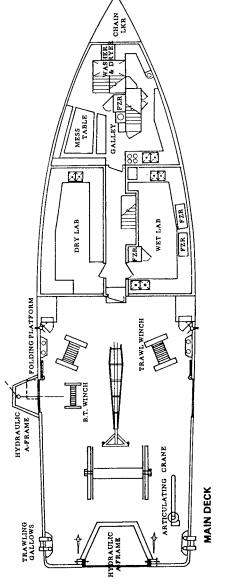
FUEL CAPACITY: 10850 GALLONS

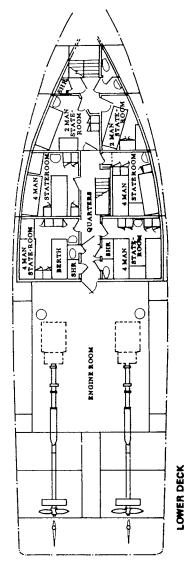
FUEL TYPE: MARINE DIESEL

FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 1200 GAL/24-HRS
DURING AVERAGE OPERATIONS: - GAL/24-HRS
DURING INPORT OPERATIONS: - GAL/24-HRS







R/V TOMMY MUNRO OUTBOARD PROFILE

ARGO MAINE

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

PHILIP HARMON POC:

POC OFFICE: MARINE SUPERINTENDENT

POC ORGANIZATION: MAINE MARITIME ACADEMY - WATERFRONT

P O BOX C-3 POC ADDRESS:

CASTINE ME 04420 POC CITY/STATE:

COMMERCIAL AREA CODE: 207

326-4311 EXT. 400 PHONE:

ADMINISTRATIVE DETAILS

RV DESIGNATOR:

PURSE SEINER CLASS:

CALL SIGN (INTERNATIONAL): WTF7434 FLEET: CIVIL

SHIP TYPE: OCEANOGRAPHIC MOTOR VESSEL

MAINE MARITIME ACADEMY SHIP OWNER:

CERTIFICATION AUTHORITY: FLAG REGISTRY: USA

HOME PORT: CASTINE ME USE

TECHNICAL SPONSOR:
OPERATIONS CONTROL:
CONTRACTUAL INFORMATION:
MAINE MARITIME ACADEMY
NONE
NONE

2.2/91 THOUSAND \$'S IN YR OPERATING COST/DAY:

2.2 8-10 SCIENTIFIC COMPLEMENT: NUMBER OFFICERS: 4 NUMBER IN CREW: 1

5 BEAUFORT SCALE MAX SEA STATE:

20 DAY(S) ENDURANCE: LIMITING FACTOR: STORES

ALBINA ENGINE AND MACHINE WORKS BUILDER:

WHERE BUILT: PORTLAND OR USA

INITIAL COST: '00 DUE DATE: '68 KEEL DATE: LAUNCH DATE: '68 168 DELIVERY DATE: '00 COMMISSION DATE: '00 CONVERSION DATE:

LAST OVERHAUL: 01 JAN 84 MAINTENANCE CYCLE: 1.0 YEARS

END OF LIFE:

UPDATE OF INFORMATION: 07 DEC 90

LENGTH: 80.0 FEET MAX BEAM: 24.0 FEET HEIGHT: 50.0 FEET 50.0 FEET

GROSS TONNAGE: 165
DISPLACEMENT: 173 TONS DRAUGHT: 11.0 FEET CRUISE SPEED: 9.0 KNOTS

RANGE: 4500 NAUTICAL MILES

MAX SPEED: 10.0 KNOTS
MIN SPEED: 0.5 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION: DIESEL GEARED AUXILIARY PROPULSION: BOW THRUSTER

NUMBER OF SHAFTS: 1

BOW THRUSTER: 360 DEG. RETRACTABLE

ACTIVE RUDDER: DYNAMIC POSITIONING: N ANTI-ROLL: N STABILIZER: N

2500 FEET DEEP ANCHOR:

BERTHING VAN DIMENSIONS: NONE
INSTRUMENT VAN DIMENSIONS: 8X10X12 WET-LAB:

DRY-LAB: Y AMMUNITION STORAGE: N HELO SUPPORT: N METEOROLOGICAL OBSERVATIONS: -

UTILITY BOATS:

1. VARIOUS AVAILABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY: 2000 POUNDS NUMBER OF FRAMES:

CRANES OR BOOMS

MAX HOIST CAPACITY: 13230 POUNDS

NUMBER OF CRANES:

WINCHES:

01. MAJOR TYPE/USE: TRAWL

SECONDARY TYPE/USE:

SLIP-RINGS: N

WIRE TYPE: WIRE ROPE WIRE LENGTH: 19800 FEET WIRE DIAMETER: 0.375 INCHES

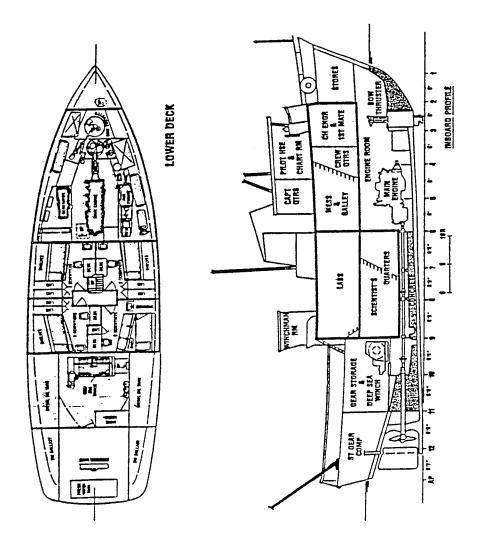
02. MAJOR TYPE/USE: HYDI SECONDARY TYPE/USE: STD HYDROGRAPHIC SLIP-RINGS: CONDUCTOR CABLE WIRE TYPE: WIRE LENGTH: 6500 FEET WIRE LENGTH: 6500 FEET WIRE DIAMETER: 0.219 INCHES SECONDARY WIRE TYPE: WIRE ROPE SECONDARY WIRE LEN: 9900 FEET SECONDARY WIRE DIAM: 0.187 INCHES 03. MAJOR TYPE/USE: SONAR SECONDARY TYPE/USE: SLIP-RINGS: 8 WIRE TYPE: CONDUCTOR CABLE
WIRE LENGTH: 1500 FEET
WIRE DIAMETER: 0.375 INCHES
04. MAJOR TYPE/USE: TRAWL (2) SECONDARY TYPE/USE: GENERAL PURPOSE N SLIP-RINGS: WIRE ROPE WIRE TYPE: WIRE LENGTH: 2000 FEET WIRE DIAMETER: 0.375 INCHES ELECTRONIC EQUIPMENT YES (2) COMPUTERS: Y FACSIMILE: ELECTROMAGNETIC LOG: Y INERTIAL NAVIGATION: RADAR (SURFACE SCAN): Y (2) LORAN A: LORAN C: Y (2) OMEGA: Y SATELLITE NAVIGATION: RADIO TELETYPE COMMUNICATION: N Y (2) SINGLE SIDE BAND: VHF COMMUNICATIONS: Y (2) STABLE TABLE: N NARROW BEAM: N Y SEISMIC PROFILING: N SIDE SCAN: SOUNDING SYSTEM (SHALLOW): JRC JFV-117 15 & 200 KZ (COLOR) SIMRAD EC-810 38, 50 ,200 KZ SOUNDING SYSTEM (DEEP): RAYTHEON; EDO WESTERN FUEL DETAILS 10500 GALLONS

FUEL CAPACITY: DIESEL #2 FUEL TYPE:

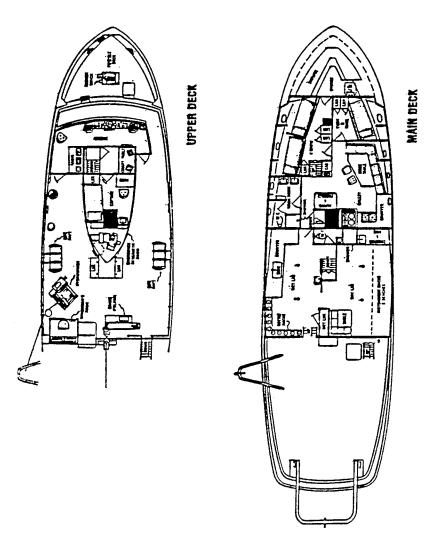
FUEL CONSUMPTION RATES:

AT NORMAL CRUISING SPEED: 200 GAL/24-HRS 150 GAL/24-HRS DURING AVERAGE OPERATIONS: DURING INPORT OPERATIONS: 30 GAL/24-HRS

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R/V ARGO MAINE OUTBOARD PROFILE



R/V ARGO MAINE OUTBOARD PROFILE

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:

CORWITH CRAMER

NAME: OFFICE:

MR. WALLACE C. STARK MARINE SUPERINTENDENT

ORGANIZATION:

SEA EDUCATION ASSOCIATION

ADDRESS:

P.O. BOX 6 (171 WOODS HOLE ROAD)

CITY-STATE:

WOODS HOLE MA 02543

COMMERCIAL AREA CODE: 508

PHONE:

540-3954

SHIP DIMENSIONS

LENGTH:

135.0 FEET

MAX BEAM:

26.0 FEET

DISPLACEMENT:

- TONS 13.0 FEET

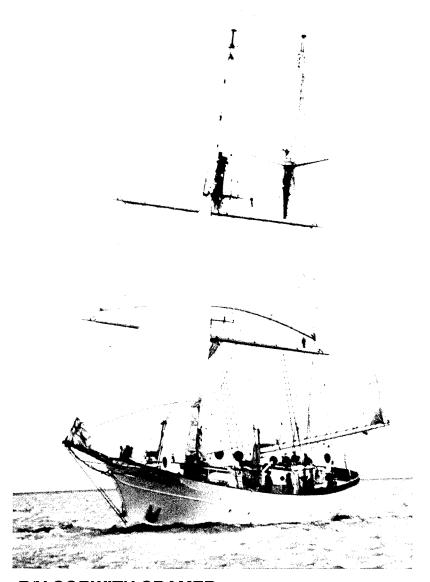
DRAUGHT: CRUISE SPEED:

- KNOTS

RANGE:

- NAUTICAL MILES

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R/V CORWITH CRAMER

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:

WESTWARD

NAME:

MR. WALLACE C. STARK

OFFICE:

MARINE SUPERINTENDENT

ORGANIZATION:

SEA EDUCATION ASSOCIATION
P.O. BOX 6 (171 WOODS HOLE ROAD)

ADDRESS:

CITY-STATE:

WOODS HOLE MA 02543

COMMERCIAL AREA CODE: 508

PHONE:

540-3954

SHIP DIMENSIONS

LENGTH: MAX BEAM: 125.0 FEET

DISPLACEMENT:

21.5 FEET 250 TONS

DRAUGHT:

12.5 FEET

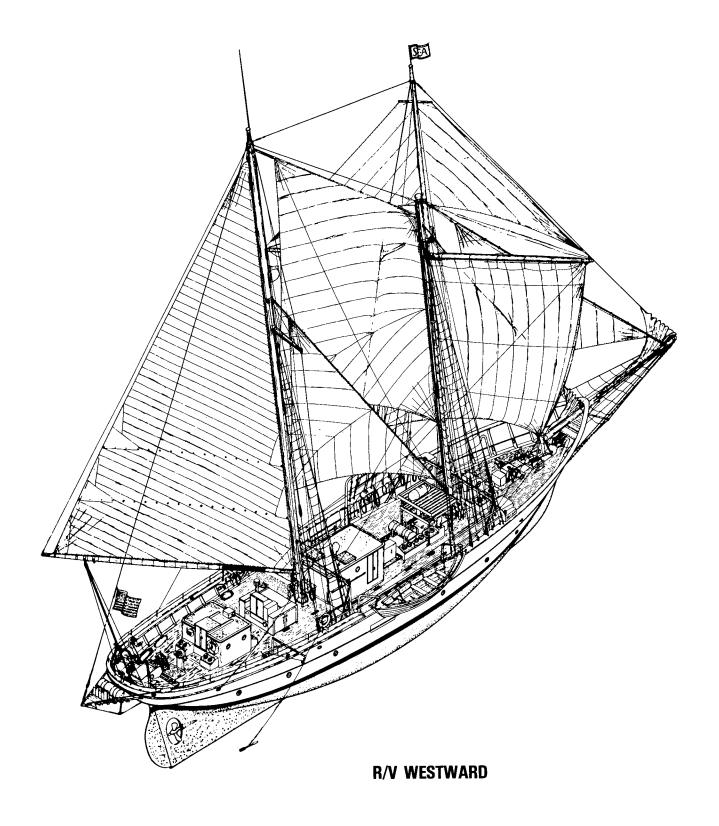
CRUISE SPEED: 7.0 KNOTS

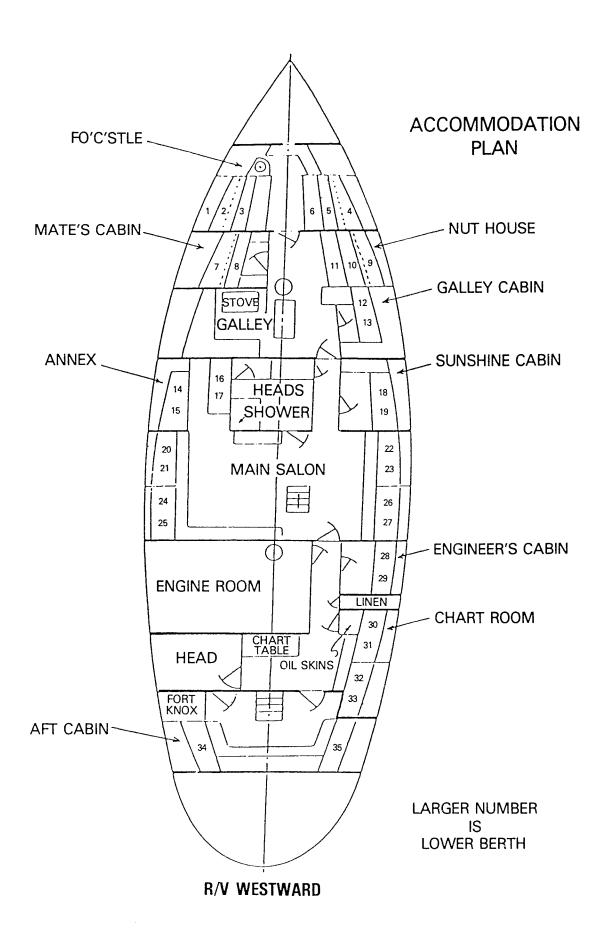
RANGE:

- NAUTICAL MILES

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OTHER UNIVERSITY OR INSTITUTIONAL VESSELS

(OVER 50 FT. LOA)

The following is a listing of other university research vessels registered with the University - National Oceanographic Laboratory System (UNOLS) Office and for which schedules have not been received or are not routinely prepared in advance. These vessels take regular cruises in local waters and, unless otherwise indicated, the nature of the work is general oceanography, coastal research and student training.

Most of these vessels are able to accommodate cooperative projects within the capability of the vessel either on a not-to-interfere or on a reimburseble basis. Further information should be obtained from the listed contact. Corrections and additions should be submitted to the UNOLS Office.

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Southern Maine Vocational Technical Institute Department of Marine Science and Technology Fort Road South Portland, ME 04106	AQUALAB III	146	New England Coast	Brian Hathaway (207)799-7303
Massachusetts Institute of Technology Sea Grant College Program 292 Main Street Bldg. E-28, Rm. 366 Cambridge, MA 02142	EDGERTON	N 65	New England Coast	Arthur Clifton (617)253-7136
Southern Massachusetts University North Dartmouth, MA 02747	CORSAIR	65	Cape Cod Waters	Jefferson Turner (617)999-8229
University of Connecticut Marine Science Institute SE Branch, Avery Point Groton, CN 06340	UCONN	65	Southern New England Coast Long Island Sound	Sung Feng (203)446-1020 Ext: 211

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Cape Fear Technical Institute 411 North Front Street Wilmington, NC 28401	NORTH STAR	73	Atlantic Coast	Arthur W. Jordan (919)343-0481 Ext: 244
	DAN MOORE	85	Atlantic Coast	CAPT S. J. Beuth (919)343-0481
Florida Institute of Technology Melbourne, FL 32901	TURSIOPS DELPHINUS	65 63	Savannah Bight Florida, Bahamas	
Nova University Ocean Sciences Center 8000 North Ocean Drive Dania, FL 33004	ENDLESS SEAS	67	Florida Coast Waters	Jan Witte (305)475-8330 Ext: 288
Florida Institute for Oceanography 830 First Street, S. St. Petersburg, FL 3370	SUNCOASTER	-	Florida Coast Gulf of Mexico Caribbean	
Marine Environmental Sciences Consortium Dauphin Island Sea Laboratory P.O. Box 386 Dauphin Island, AL 3652		65	Gulf of Mexico	Fred Rees (205)861-2141
University of Puerto Ri Department of Marine Sciences Mayaguez, Puerto Rico 0	MAGUEYES	71	South Coast of Puerto Rico & Mona Passage	
Gulf Coast Research Laboratory P.O. Box Drawer AG Ocean Springs, MS 3956	GULF RESEARCHER 5	65	Gulf of Mexico	Harold D. Howse (601)875-2244
Marine Sciences Researc Center State University of New Stony Brook, NY 11794-5	York	60	New York Bight Long Island Sound Hudson River	William M. Wise (516)632-8656

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Hobart & William Smith Colleges Geneva, NY 14456	HOBART & WILLIAM SMITH EXPLORER	65	Finger Lakes Great Lakes	Richard Wilkens (315)789-5500 Ext: 213
State University College at Buffalo 1300 Elmwood Avenue Buffalo, NY 14222	C.A. DAMBACH	65	Great Lakes	Robert A. Sweeney (716)878-5422
University of Wisconsin- Milwaukee Center for Great Lakes Studies Milwaukee, WI 53201	NEESKAY	65	Great Lakes	Donald F. Mraz (414)224-3007
University of Maryland Chesapeake Biol. Lab Solomons, MD 20688	AQUARIUS ORION	65 62	Chesapeake Bay	Elgin A. Dunnington (301)326-4281
Virginia Institute of R. Marine Science Gloucester Point, VA 23062	ETRIEVER	115	Mid-Atlantic Coast Chesapeake Bay	John M. Zeigler (804)642-2111
The Marine Science Di Consortium Inc. P.O. Box 16 Wallops Island, VA 2333	ELAWARE BAY 7	50	NJ to VA coast to 50 miles offshore	Robert W. Hinds (804)824-5636
Occidental College Department of Biology 1600 Campus Road Los Angeles, CA 90041	VANTUNA	85	California Coast	John S. Stephens (213)259-2675
NOAA National Undersea Research Program University of North Carolina at Wilmington 601 South College Wilmington, NC 28403	SEAHAWK	80	Atlantic Coast New Enland to Georgia	Frank L. Chapman (919)762-7615

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Harbor Branch Oceanographic Inst. 5600 Old Dixie Highway Fort Pierce, FL 34946	SEA DIVER	98	Florida Coast	Tim Askew (407)465-2400

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:

ATHENA

NAME:

THOMAS BROGLIO

OFFICE:

ATHENA RESEARCH SHIP SYSTEM NAVAL SURFACE WARFARE CENTER

ORGANIZATION: ADDRESS:

CODE 540.3

CITY-STATE:

BETHESDA, MD 20084-5000

COMMERCIAL AREA CODE:

301

PHONE:

227-2005

FAX:

227-4615

SHIP DIMENSIONS

LENGTH:

164.5 FEET

MAX BEAM:

24.0 FEET

DISPLACEMENT:

240 TONS

DRAUGHT:

10.5 FEET

CRUISE SPEED:

13.0 KNOTS

RANGE:

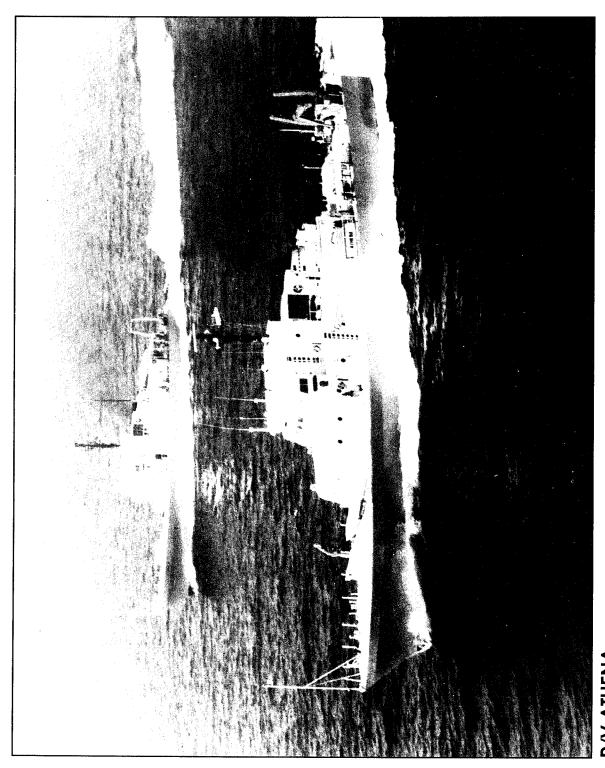
2700 NAUTICAL MILES

TOP SPEED:

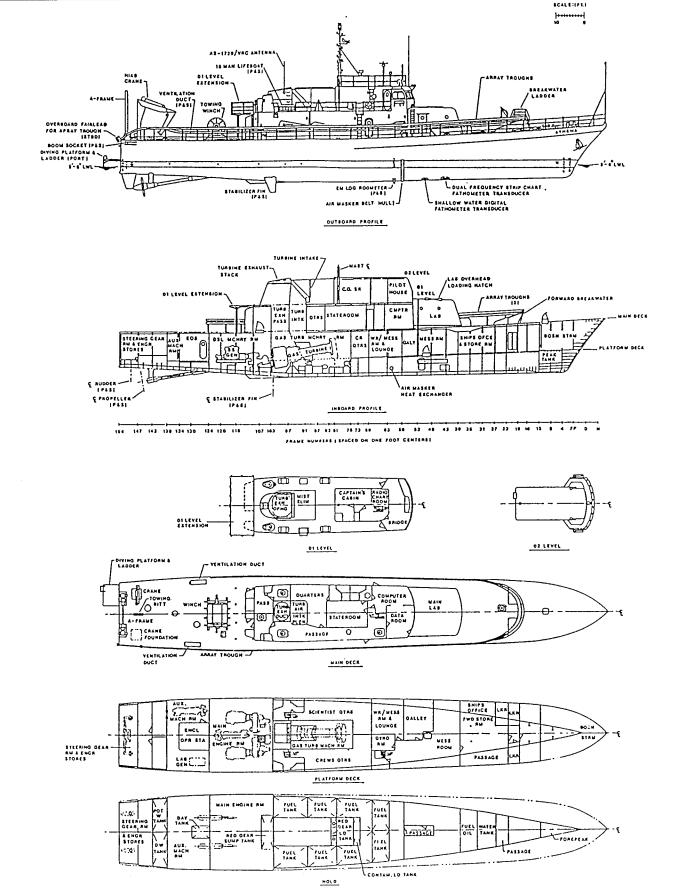
35+ KNOTS

ACCOMMODATIONS:

15 SCIENTIFIC PERSONNEL



R/V ATHENA



R/V ATHENA
Profiles and Arrangement of Decks

SHIP NAME: ERLINE NAME: COMMANDER

OFFICE:

ORGANIZATION:

NAVAL UNDERWATER SYSTEMS CENTER

ADDRESS:

CITY-STATE:

NEWPORT, RI 02841-5047

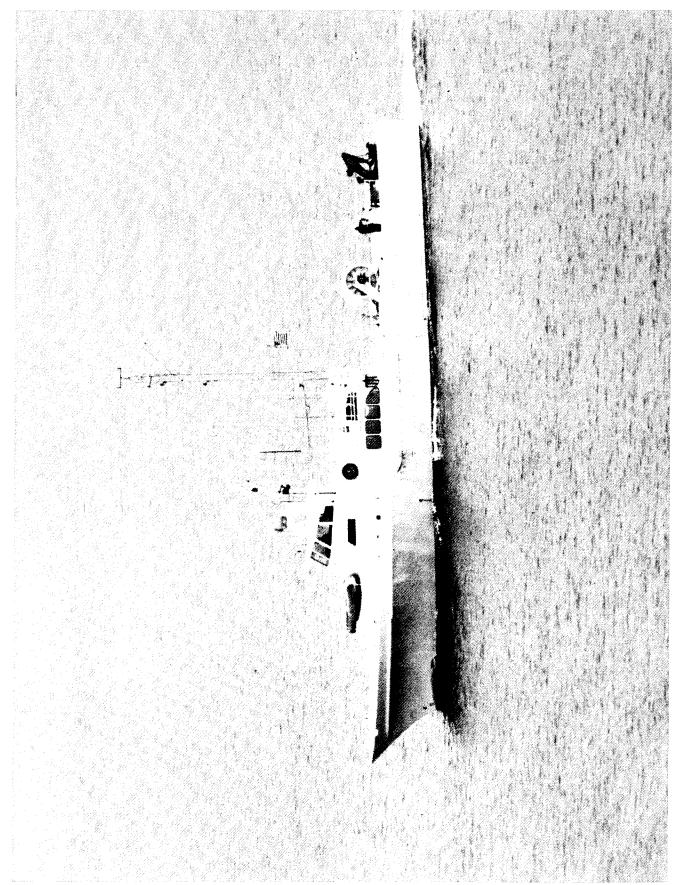
COMMERCIAL AREA CODE: 401

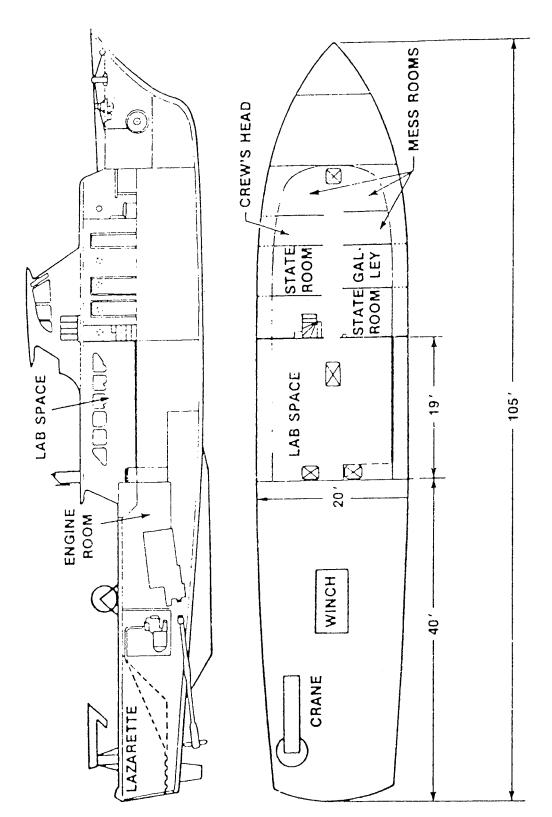
PHONE: 841-2311

SHIP DIMENSIONS

LENGTH: 105.0 FEET
MAX BEAM: 20.7 FEET
DISPLACEMENT: 96 TONS
DRAUGHT: 5.9 FEET
CRUISE SPEED: 10.0 KNOTS

RANGE: 1200 NAUTICAL MILES





R/V ERLINE

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:

USCGC POLAR SEA

NAME:

LCDR WAYNE ROBERTS COMMANDANT (G-NIO)

OFFICE: ORGANIZATION:

U.S. COAST GUARD

ADDRESS:

2100 SECOND STREET, SW

CITY-STATE:

WASHINGTON DC 20593-0001

COMMERCIAL AREA CODE: 202

PHONE:

267-1460

SHIP DIMENSIONS

LENGTH:

399.0 FEET

MAX BEAM:

83.5 FEET

DISPLACEMENT:

10863 TONS

DRAUGHT: CRUISE SPEED:

28.0 FEET 13.0 KNOTS

RANGE:

28275 NAUTICAL MILES

USCGC POLAR SEA

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:

USCGC POLAR STAR

NAME: OFFICE: LCDR WAYNE ROBERTS COMMANDANT (G-NIO)

ORGANIZATION:

U.S. COAST GUARD

ADDRESS:

2100 SECOND STREET, SW

CITY-STATE:

WASHINGTON DC 20593-0001

COMMERCIAL AREA CODE: 202

PHONE:

267-1460

SHIP DIMENSIONS

399.0 FEET MAX BEAM: LENGTH: 83.5 FEET DISPLACEMENT: 10863 TONS 28.0 FEET DRAUGHT: 13.0 KNOTS CRUISE SPEED:

28275 NAUTICAL MILES RANGE:

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:

NATHANIEL B. PALMER

NAME:

ALEXANDER L. SUTHERLAND

OFFICE:

DIVISION OF POLAR PROGRAMS

ORGANIZATION:

NATIONAL SCIENCE FOUNDATION

ADDRESS:

1800 G ST. NW

CITY-STATE:

WASHINGTON DC 20550

COMMERCIAL AREA CODE: 202

PHONE:

357-7808

SHIP DIMENSIONS

LENGTH:

308.5 FEET

MAX BEAM:

60.0 FEET

DISPLACEMENT:

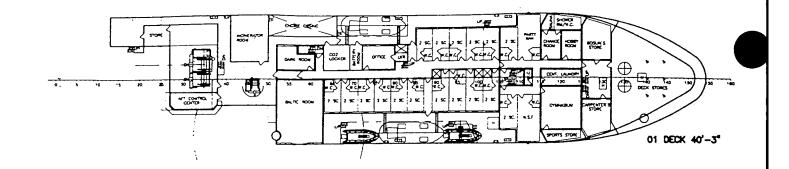
6500 TONS

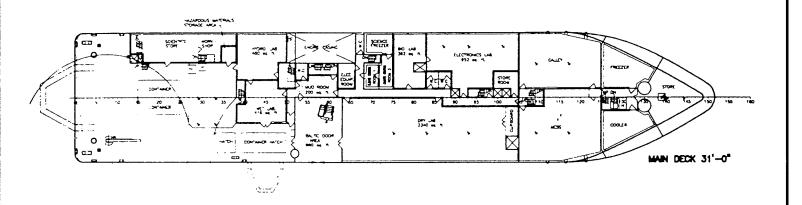
DRAUGHT:

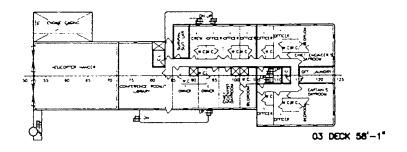
21.75 FEET

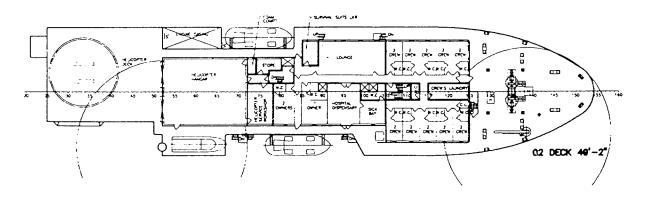
CRUISE SPEED:

RANGE:









R/V NATHANIEL B. PALMER

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:

ALBATROSS IV

NAME:

CDR ROBERT HUNT

OFFICE:

CHIEF OPERATIONS DIVISION

ORGANIZATION:

NOAA ATLANTIC MARINE CENTER

ADDRESS:

439 WEST YORK STREET

CITY-STATE:

NORFOLK VA 23510

COMMERCIAL AREA CODE: 804

PHONE:

441-6440

SHIP DIMENSIONS

LENGTH:

187.0 FEET

MAX BEAM:

33.0 FEET

DISPLACEMENT:

1089 TONS

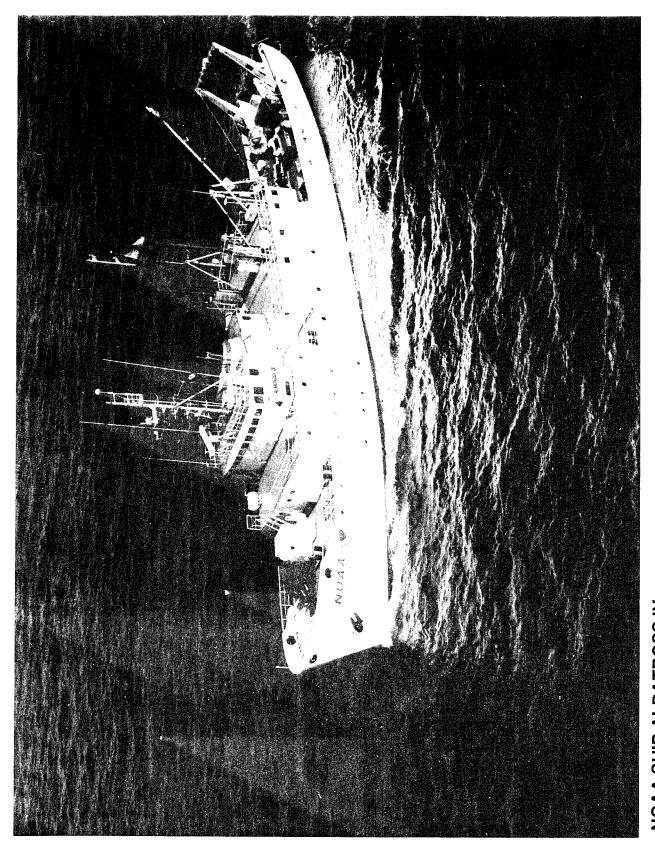
DRAUGHT:

16.2 FEET

CRUISE SPEED: 10.0 KNOTS

RANGE:

3933 NAUTICAL MILES



POINT OF CONTACT INFORMATION (SCHEDULES)

MALCOLM BALDRIDGE SHIP NAME: CDR ROBERT HUNT NAME:

CHIEF OPERATIONS DIVISION OFFICE: ORGANIZATION:
ADDRESS:
CITY-STATE:
NOAA ATLANTIC MARINE CENTER
439 WEST YORK STREET
NORFOLK VA 23510

COMMERCIAL AREA CODE: 804

441-6440 PHONE:

SHIP DIMENSIONS

LENGTH:
MAX BEAM: 278.3 FEET 51.0 FEET 2963 TONS DISPLACEMENT: 18.3 FEET DRAUGHT: CRUISE SPEED: 13.0 KNOTS

RANGE: 11245 NAUTICAL MILES

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: CHAPMAN

CDR ROBERT HUNT NAME:

CHIEF OPERATIONS DIVISION OFFICE: NOAA ATLANTIC MARINE CENTER ORGANIZATION:

439 WEST YORK STREET NORFOLK VA 23510 ADDRESS:

CITY-STATE:

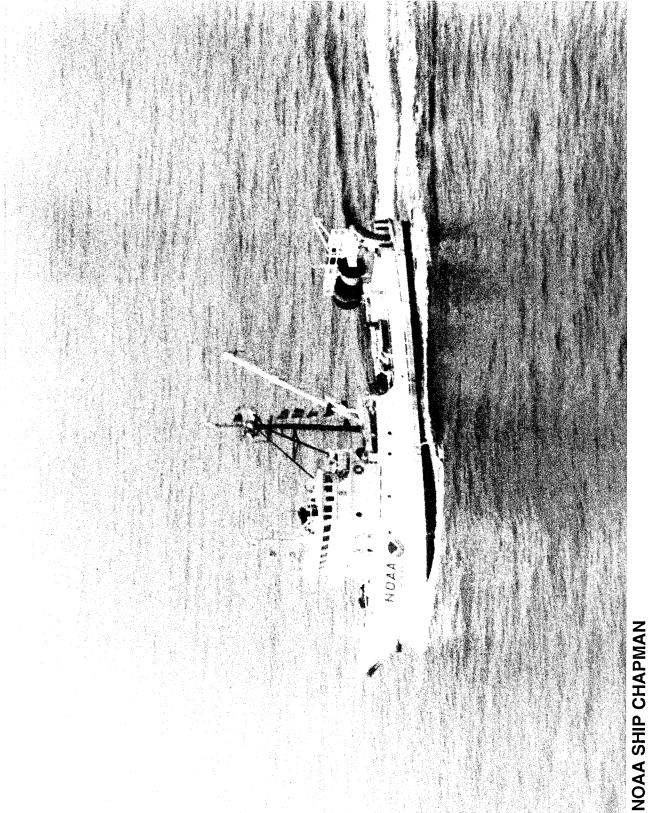
COMMERCIAL AREA CODE: 804

PHONE: 441-6440

SHIP DIMENSIONS

127.0 FEET MAX BEAM: LENGTH: 29.6 FEET 520 TONS DISPLACEMENT: 14.0 FEET DRAUGHT: 9.0 KNOTS CRUISE SPEED:

RANGE: 3024 NAUTICAL MILES



POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: JOHN N. COBB
NAME: CAPT FRED JONES

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA PACIFIC MARINE CENTER

ADDRESS: 1801 FAIRVIEW AVENUE E

CITY-STATE: SEATTLE WA 98102

COMMERCIAL AREA CODE: 206

PHONE: 442-4548

SHIP DIMENSIONS

LENGTH: 93.0 FEET
MAX BEAM: 26.0 FEET
DISPLACEMENT: 250 TONS
DRAUGHT: 11.0 FEET
CRUISE SPEED: 9.0 KNOTS

RANGE: 3505 NAUTICAL MILES

NOAA SHIP JOHN N. COBB

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: TOWNSEND CROMWELL NAME: CAPT FRED JONES

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA PACIFIC MARINE CENTER ADDRESS: 1801 FAIRVIEW AVENUE E

ADDRESS: 1801 FAIRVIEW AVENUE CITY-STATE: SEATTLE WA 98102

COMMERCIAL AREA CODE: 206

PHONE: 442-4548

SHIP DIMENSIONS

LENGTH: 163.0 FEET
MAX BEAM: 33.0 FEET
DISPLACEMENT: 652 TONS
DRAUGHT: 12.7 FEET
CRUISE SPEED: 10.0 KNOTS

RANGE: 8160 NAUTICAL MILES

NOAA SHIP TOWNSEND CROMWELL

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: DAVIDSON

CAPT FRED JONES NAME:

CHIEF OPERATIONS DIVISION OFFICE: ORGANIZATION: NOAA PACIFIC MARINE CENTER

1801 FAIRVIEW AVENUE E SEATTLE WA 98102 ADDRESS:

CITY-STATE:

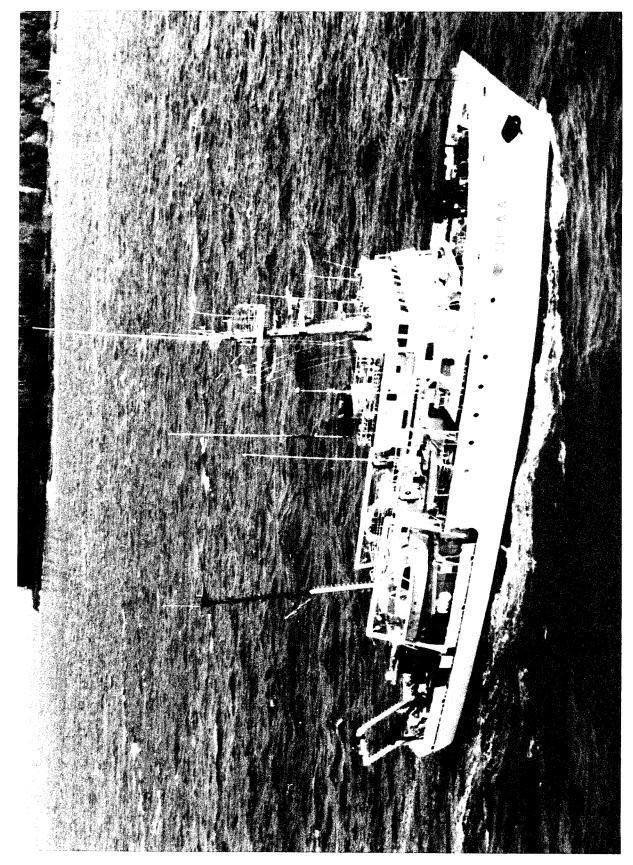
COMMERCIAL AREA CODE: 206

442-4548 PHONE:

SHIP DIMENSIONS

MAX BEAM: 175.0 FEET 38.0 FEET DISPLACEMENT: 995 TONS 14.0 FEET DRAUGHT: CRUISE SPEED: 10.0 KNOTS

5788 NAUTICAL MILES



214

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: DELAWARE II

NAME: CAPT ROBERT HUNT

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA ATLANTIC MARINE CENTER

ADDRESS: 439 WEST YORK STREET

CITY-STATE: NORFOLK VA 23510

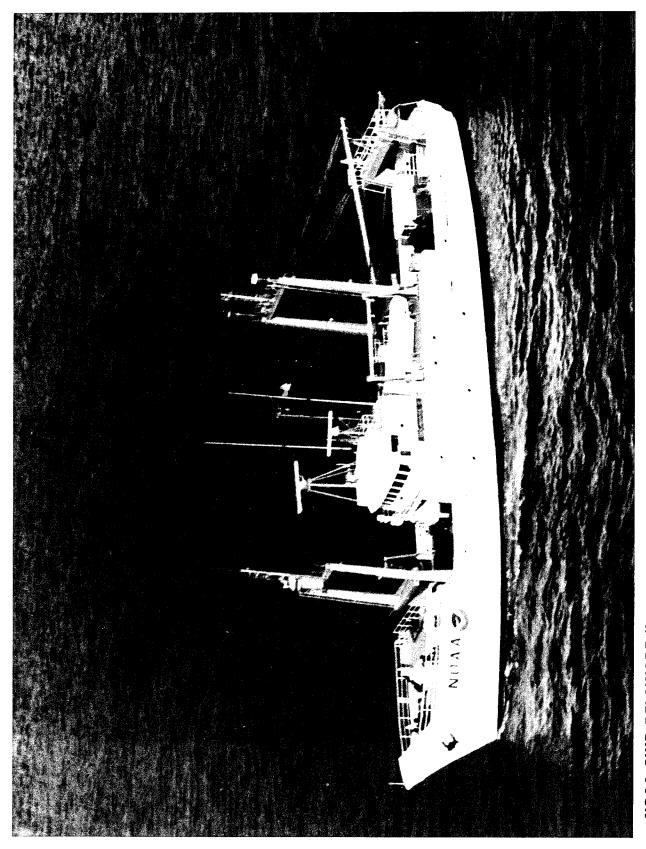
COMMERCIAL AREA CODE: 804

PHONE: 441-6440

SHIP DIMENSIONS

LENGTH: 155.0 FEET
MAX BEAM: 30.1 FEET
DISPLACEMENT: 758 TONS
DRAUGHT: 14.7 FEET
CRUISE SPEED: 11.0 KNOTS

RANGE: 5318 NAUTICAL MILES



POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:

DISCOVERER

NAME:

CAPT FRED JONES

OFFICE:

CHIEF OPERATIONS DIVISION

ORGANIZATION:

NOAA PACIFIC MARINE CENTER

ADDRESS:

1801 FAIRVIEW AVENUE E

CITY-STATE:

SEATTLE WA 98102

COMMERCIAL AREA CODE: 206

PHONE:

442-4548

SHIP DIMENSIONS

LENGTH:

303.0 FEET

MAX BEAM:

52.0 FEET

DISPLACEMENT:

4033 TONS

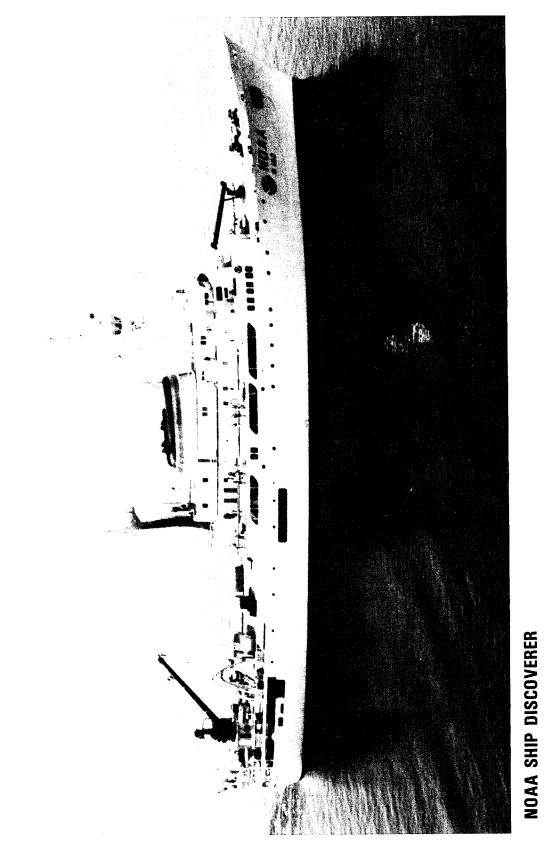
DRAUGHT:

19.8 FEET 11.0 KNOTS

CRUISE SPEED: RANGE:

9211 NAUTICAL MILES

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: FAIRWEATHER CAPT FRED JONES NAME:

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA PACIFIC MARINE CENTER

ADDRESS: CITY-STATE: 1801 FAIRVIEW AVENUE E

SEATTLE WA 98102

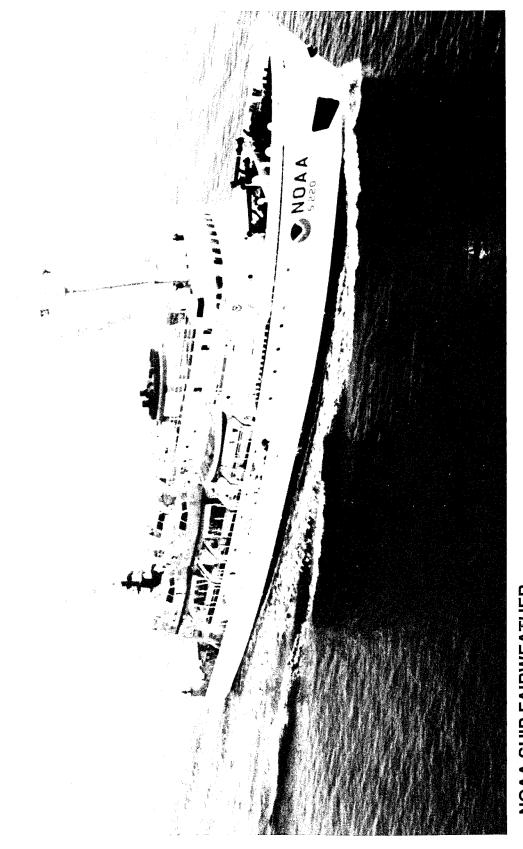
COMMERCIAL AREA CODE: 206

PHONE: 442-4548

SHIP DIMENSIONS

LENGTH: 231.0 FEET MAX BEAM: 42.0 FEET DISPLACEMENT: 1800 TONS DRAUGHT: 14.3 FEET CRUISE SPEED: 11.0 KNOTS

RANGE: 5898 NAUTICAL MILES



POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: FERREL

CAPT ROBERT HUNT NAME:

CHIEF OPERATIONS DIVISION OFFICE: ORGANIZATION: NOAA ATLANTIC MARINE CENTER

439 WEST YORK STREET ADDRESS:

NORFOLK VA 23510 CITY-STATE:

COMMERCIAL AREA CODE: 804

PHONE: 441-6440

SHIP DIMENSIONS

MAX BEAM: 133.0 FEET 32.0 FEET DISPLACEMENT: 360 TONS 6.5 FEET DRAUGHT: CRUISE SPEED: 9.0 KNOTS

2678 NAUTICAL MILES RANGE:



POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: MILLER FREEMAN CAPT FRED JONES NAME:

CHIEF OPERATIONS DIVISION OFFICE: NOAA PACIFIC MARINE CENTER 1801 FAIRVIEW AVENUE E SEATTLE WA 98102 ORGANIZATION:

ADDRESS:

CITY-STATE:

COMMERCIAL AREA CODE: 206

442-4548

SHIP DIMENSIONS

215.0 FEET LENGTH: 215.0 FEET MAX BEAM: 42.0 FEET LENGTH: DISPLACEMENT: 1920 TONS 20.0 FEET DRAUGHT: CRUISE SPEED: 12.0 KNOTS

12528 NAUTICAL MILES RANGE:



POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: HECK

NAME: CAPT ROBERT HUNT

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA ATLANTIC MARINE CENTER

ADDRESS: 439 WEST YORK STREET

CITY-STATE: NORFOLK VA 23510

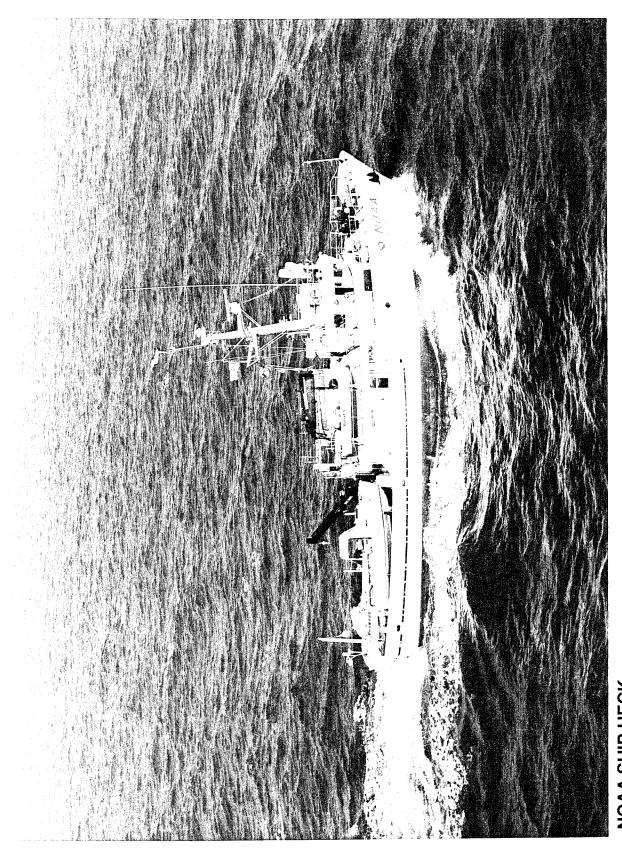
COMMERCIAL AREA CODE: 804

PHONE: 441-6440

SHIP DIMENSIONS

LENGTH: 90.0 FEET
MAX BEAM: 22.0 FEET
DISPLACEMENT: 220 TONS
DRAUGHT: 7.2 FEET
CRUISE SPEED: 10.0 KNOTS

RANGE: 770 NAUTICAL MILES



POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: DAVID STARR JORDAN NAME: CAPT FRED JONES

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA PACIFIC MARINE CENTER ADDRESS: 1801 FAIRVIEW AVENUE E

CITY-STATE: SEATTLE WA 98102

COMMERCIAL AREA CODE: 206

PHONE: 442-4548

SHIP DIMENSIONS

LENGTH: 171.0 FEET
MAX BEAM: 36.6 FEET
DISPLACEMENT: 993 TONS
DRAUGHT: 12.5 FEET
CRUISE SPEED: 10.0 KNOTS

RANGE: 8335 NAUTICAL MILES



NOAA SHIP DAVID STARR JORDAN

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: MCARTHUR

NAME: CAPT FRED JONES

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA PACIFIC MARINE CENTER

ADDRESS: 1801 FAIRVIEW AVENUE E

CITY-STATE: SEATTLE WA 98102

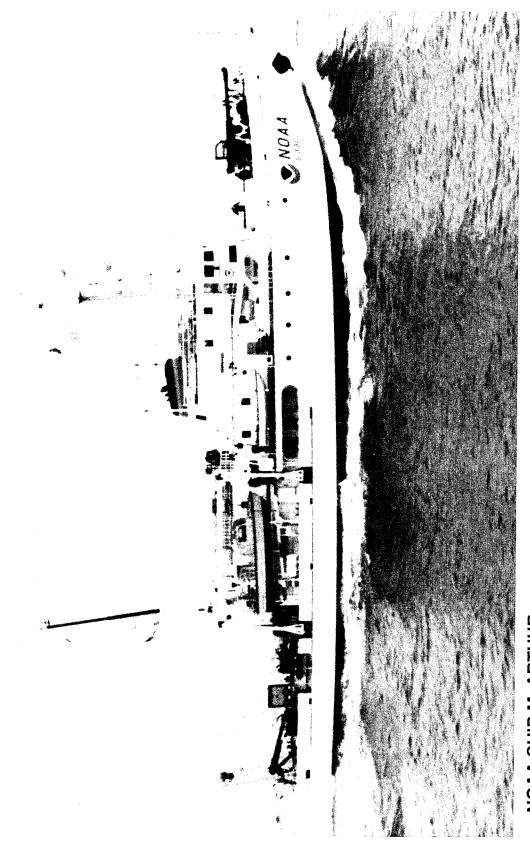
COMMERCIAL AREA CODE: 206

PHONE: 442-4548

SHIP DIMENSIONS

LENGTH: 175.0 FEET
MAX BEAM: 38.0 FEET
DISPLACEMENT: 995 TONS
DRAUGHT: 12.1 FEET
CRUISE SPEED: 10.0 KNOTS

RANGE: 6615 NAUTICAL MILES



POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: MT. MITCHELL

NAME: CAPT ROBERT HUNT

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA ATLANTIC MARINE CENTER

ADDRESS: 439 WEST YORK STREET

CITY-STATE: NORFOLK VA 23510

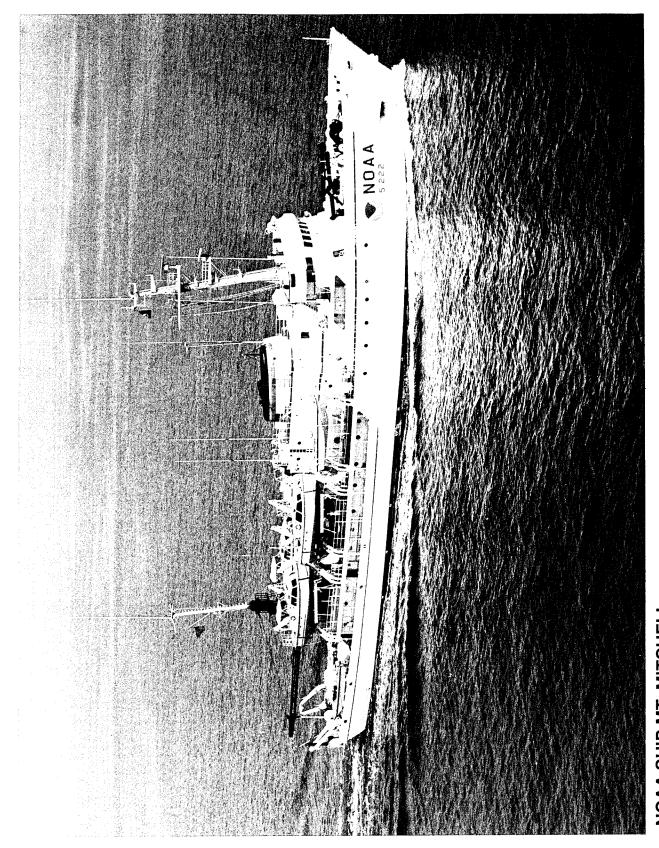
COMMERCIAL AREA CODE: 804

PHONE: 441-6440

SHIP DIMENSIONS

LENGTH: 231.0 FEET
MAX BEAM: 42.0 FEET
DISPLACEMENT: 1800 TONS
DRAUGHT: 14.3 FEET
CRUISE SPEED: 11.0 KNOTS

RANGE: 5898 NAUTICAL MILES



POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:

MURRE II

NAME:

CAPT FRED JONES

OFFICE:

CHIEF OPERATIONS DIVISION

ORGANIZATION:

NOAA PACIFIC MARINE CENTER

ADDRESS:

1801 FAIRVIEW AVENUE E

CITY-STATE:

SEATTLE WA 98102

COMMERCIAL AREA CODE: 206

PHONE:

442-4548

SHIP DIMENSIONS

LENGTH:

86.0 FEET

MAX BEAM:

26.8 FEET

DISPLACEMENT:

295 TONS

DRAUGHT:

7.5 FEET

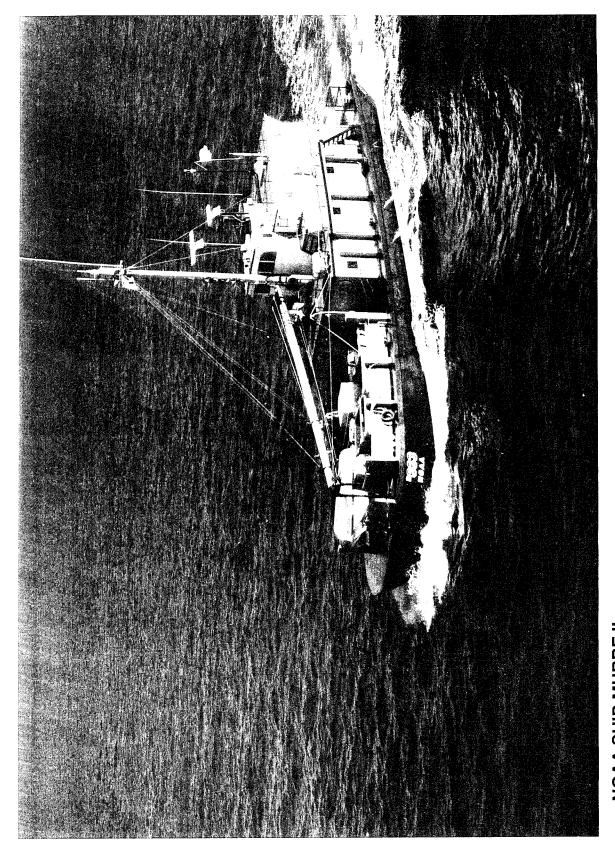
CRUISE SPEED:

9.0 KNOTS

RANGE:

1620 NAUTICAL MILES

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234

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: OREGON II

NAME: CAPT ROBERT HUNT

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA ATLANTIC MARINE CENTER

ADDRESS: 439 WEST YORK STREET

CITY-STATE: NORFOLK VA 23510

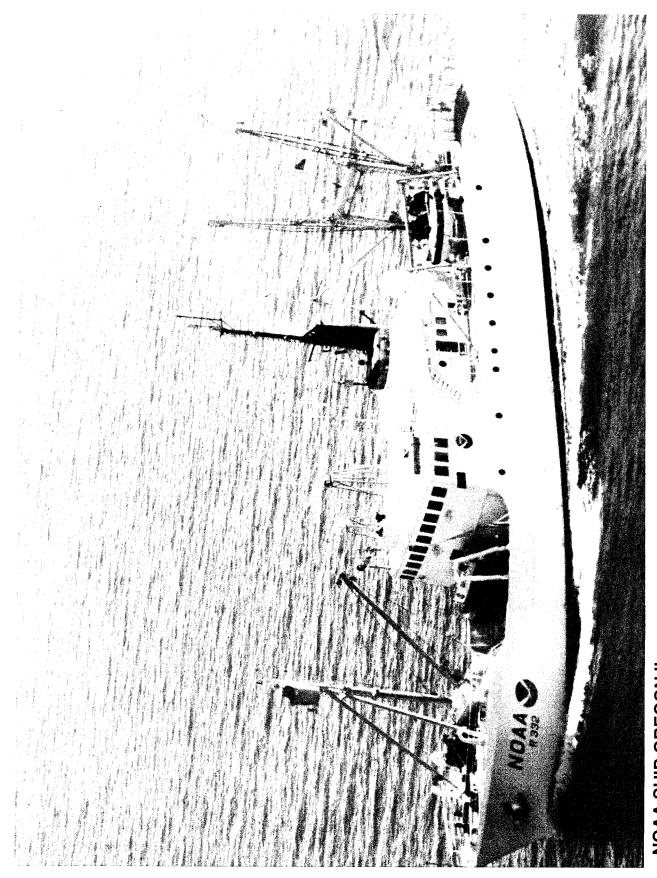
COMMERCIAL AREA CODE: 804

PHONE: 441-6440

SHIP DIMENSIONS

LENGTH: 170.0 FEET
MAX BEAM: 34.0 FEET
DISPLACEMENT: 952 TONS
DRAUGHT: 14.0 FEET
CRUISE SPEED: 12.0 KNOTS

RANGE: 7810 NAUTICAL MILES



236

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: RAINIER

NAME: CAPT FRED JONES

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION:

NOAA PACIFIC MARINE CENTER
ADDRESS:

1801 FAIRVIEW AVENUE E
CITY-STATE:

SEATTLE WA 98102

CITY-STATE:

COMMERCIAL AREA CODE: 206

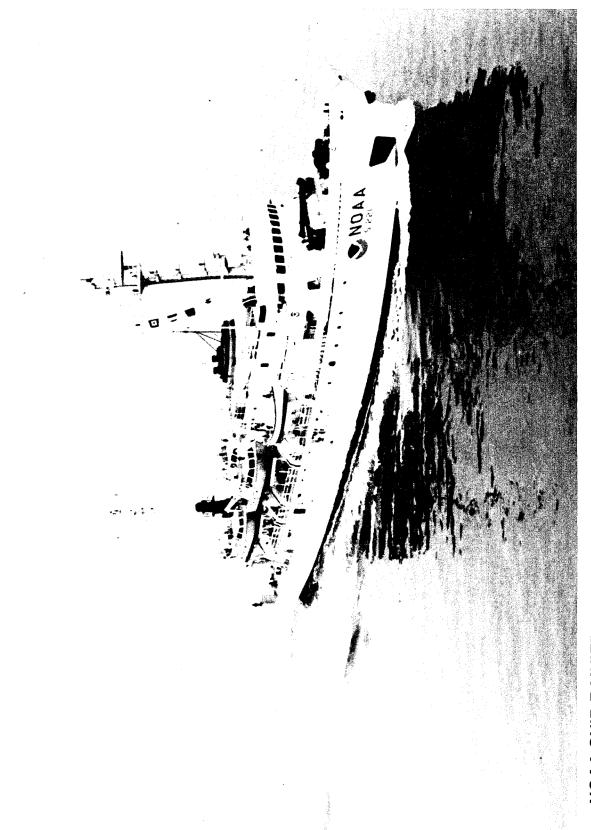
PHONE: 442-4548

SHIP DIMENSIONS

MAX BEAM: 231.0 FEET 42.0 FEET 1800 TONS DISPLACEMENT: DRAUGHT: 14.3 FEET CRUISE SPEED: 11.0 KNOTS

RANGE: 5898 NAUTICAL MILES

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: RUDE

NAME: CAPT ROBERT HUNT

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA ATLANTIC MARINE CENTER

ADDRESS: 439 WEST YORK STREET

CITY-STATE: NORFOLK VA 23510

COMMERCIAL AREA CODE: 804

PHONE: 441-6440

SHIP DIMENSIONS

LENGTH: 90.0 FEET
MAX BEAM: 22.0 FEET
DISPLACEMENT: 220 TONS
DRAUGHT: 7.2 FEET
CRUISE SPEED: 9.0 KNOTS

RANGE: 770 NAUTICAL MILES



POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: SURVEYOR

NAME: CAPT FRED JONES

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA PACIFIC MARINE CENTER

ADDRESS: 1801 FAIRVIEW AVENUE E

CITY-STATE: SEATTLE WA 98102

COMMERCIAL AREA CODE: 206

PHONE: 442-4548

SHIP DIMENSIONS

LENGTH: 292.2 FEET
MAX BEAM: 46.0 FEET
DISPLACEMENT: 3440 TONS
DRAUGHT: 19.5 FEET
CRUISE SPEED: 12.0 KNOTS

RANGE: 8033 NAUTICAL MILES

NOAA SHIP SURVEYOR

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: WHITING

NAME: CAPT ROBERT HUNT

OFFICE: CHIEF OPERATIONS DIVISION ORGANIZATION: NOAA ATLANTIC MARINE CENTER

ADDRESS: 439 WEST YORK STREET

CITY-STATE: NORFOLK VA 23510

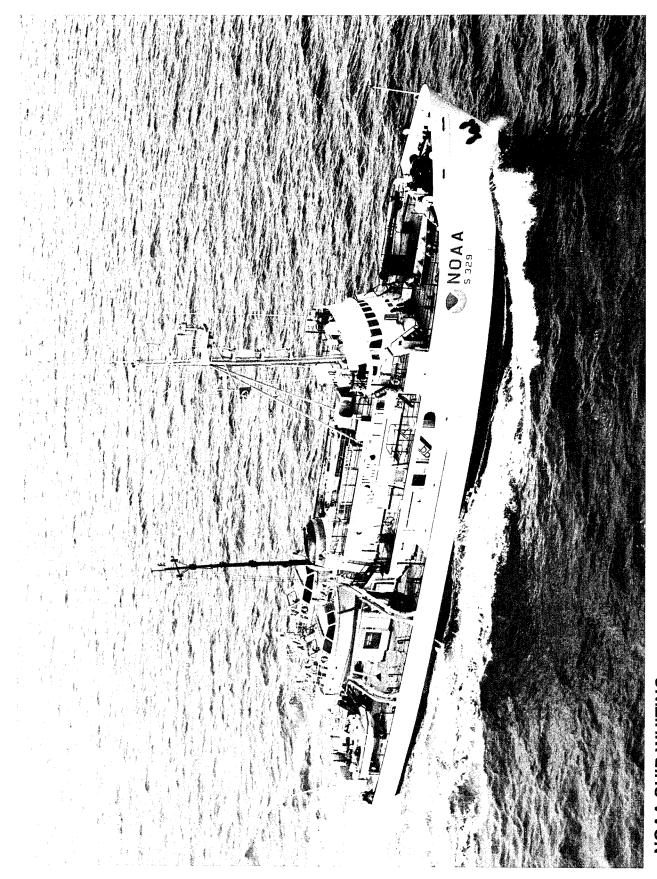
COMMERCIAL AREA CODE: 804

PHONE: 441-6440

SHIP DIMENSIONS

LENGTH: 163.0 FEET
MAX BEAM: 33.0 FEET
DISPLACEMENT: 907 TONS
DRAUGHT: 11.2 FEET
CRUISE SPEED: 12.0 KNOTS

RANGE: 5700 NAUTICAL MILES



244

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:

USNS SAMUEL P. LEE

NAME:

MARK HOLMES

OFFICE:

PACIFIC BRANCH OFFICE OF MARINE GEOLOGY

ORGANIZATION:

U.S. GEOLOGICAL SURVEY

ADDRESS:

345 MIDDLEFIELD RD, MAILSTOP 999 MENLO PARK CA 94025

CITY-STATE:

COMMERCIAL AREA CODE: 415

PHONE:

856-7141

SHIP DIMENSIONS

LENGTH: 208.3 FEET MAX BEAM: 39.0 FEET 1338 TONS DISPLACEMENT:

DRAUGHT: CRUISE SPEED:

14.2 FEET 11.6 KNOTS

RANGE:

12000 NAUTICAL MILES

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME: LAKE GUARDIAN

NAME: MR. DAVID ROCKWELL OFFICE: EPA PROJECT OFFICER

ORGANIZATION: GREAT LAKES NATIONAL PROGRAM OFFICE

ADDRESS: 230 SOUTH DEARBORN CITY-STATE: CHICAGO IL 60604

COMMERCIAL AREA CODE: 312

PHONE: 353-1373

SHIP DIMENSIONS

LENGTH: 180.0 FEET
MAX BEAM: 40.0 FEET
DISPLACEMENT: 850 TONS
DRAUGHT: 11.0 FEET
CRUISE SPEED: 12.0 KNOTS

RANGE: 6000 NAUTICAL MILES

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:

PETER W. ANDERSON

NAME:

EDWARD MCLEAN

OFFICE:

MARINE & ESTUARINE PROTECTION WH556M

ORGANIZATION:

ENVIRONMENTAL PROTECTION AGENCY 401 M. STREET, SW WASHINGTON DC 20460

ADDRESS:

CITY-STATE:

COMMERCIAL AREA CODE: 202

PHONE:

382-7143

SHIP DIMENSIONS

165.0 FEET LENGTH: MAX BEAM: 24.0 FEET DISPLACEMENT: 250 TONS 10.5 FEET DRAUGHT: CRUISE SPEED: 12.0 KNOTS

2448 NAUTICAL MILES RANGE:

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EPA PETER W. ANDERSON